A. I. A. File Number 30e

REGISTERS AND GRILLES

REGISTER AND GRILLE MANUFACTURING CO.

INCORPORATED

70 BERRY STREET, BROOKLYN, N. Y.

THE HATCH & BAILEY CO.
29 MARSHALL ST.
SO. NORWALK CONN.

A. I. A. File Number 30e

DEFINITIONS and SPECIFICATIONS

Definitions

A Register: Is a metal device for volume and directional control of warm or cold air, located at the outlet of a duct and consisting of a face of open design attached to movable valve or louvres. The term register includes both the register face and register bottom, or Valve.

A Register Face: Is a metal plate of open design, having in its fretwork an opening for the operating handle of the louvres, and screw holes for attaching to the register bottom.

Register Bottom: The movable valve or valves, body frame and operating movement assembled for attaching to the register face.

Grille: Is a metal plate of open design similar to a register face except that wheel slot and screw holes in fretwork are omitted.

Floor Borders: Floor border an outer frame set into the floor into which a register or register face sets flush. Seldom used but designed originally for fire protection.

Bronze Metal: "Solid Bronze Metal Registers" is the trade name for Registers which have Faces of Cast Bronze, but bottoms or Louvres of Cast Iron or Stamped Steel, and our quotations are based on that interpretation.

If the entire register is to be made of Bronze Metal the specifications should also state "Bottoms to be of Bronze Metal throughout" and state whether Cast Bronze or Sheet Bronze is required.

For floor use we recommend Cast Bronze or at least $\frac{3}{16}$" thick Stamped Bronze Faces with Cast Iron or Cast Bronze Bottoms.

Stamped Bronze faces of light ga. are suitable for wall use and should be specified with Steel or sheet Bronze Bottoms.

Specifications

First: Specify that all Grilles and Registers shall be R. & G. as manufactured by REGISTER & GRILLE MFG. CO., BROOKLYN, N. Y.

Second: State whether Register or Grille is required. (See Definitions)

Third: State material — CAST — (Iron, Brass, Bronze, Aluminum). STAMPED — (Steel, Brass, Bronze, Aluminum or Monel Metal). FABRIKATED (steel).

Fourth: State Design; use our numbers for Cast, Stamped or Fabrikated designs; or "Made to Architects special details".

Fifth: State size (Unless otherwise specified we will assume the dimension is duct or opening size). We will also assume that an additional margin of approximately one inch all around will be acceptable. If exact extreme size is required it should be so stated.

Sixth: State location whether floor, ceiling or wall. We recommend Cast, Heavy Steel or "Fabrikated" for floor.

Seventh: State finish; see list of standard finishes shown below.

Eighth: State construction number for fastening. See details on pages 10 or 34.

Ninth: State Hinging if required.

Specify: (a) Which side bears hinges.
(b) Whether attached to marble, stone or iron work.

Tenth: State drilling if required. NOTE rims will *not* be drilled unless so ordered.

STANDARD FINISHES

The following finishes are standard and should be specified by name. Any special color should be accompanied by sample for matching.

JAPAN AND SPECIAL LACQUERS

Mill Finish or Unfinished
Prime Coat
Black Japan
White Japan
Rango Dull Black
Rango Silver
Rango Bronze
Rango Antique
Rango Dull Brass
Rango Oxid. Copper
Rango Bauer Barff
Rango Ivory
Rango Oak
Rango Walnut
Rango Mahogany
Rango Verde Antique

ELECTROPLATED

When "Bronze Plated" only is specified, Medium Statuary Bronze color is furnished.

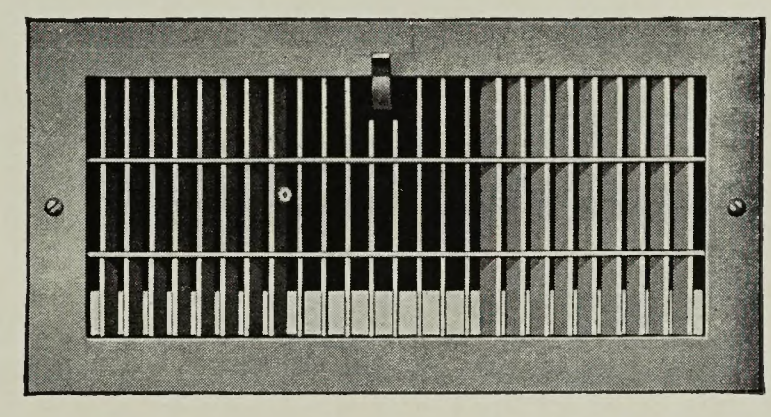
Statuary Bronze (Light, Medium or Dark)
Bright Polished Bronze
Copper (Dull or Bright Polished)
Nickel (Dull or Bright Polished)
Bright Polished Brass
Dull Brass (Brushed Finish)
Sand Blast Brass
Oxidized Copper (Spotted Copper)
Chromium (Bright or Satin)
Cadmium
Dead Black (Imitation Bauer Barff.)

Experience . . .

As we start the fourth year of this company we repeat our opening statement that "Experience is so vitally a necessary part of a Sales and Manufacturing Organization."

Our Office force, Superintendent, Foremen, Pattern and Die Makers and Finishers are all men with years of experience, many of them having spent their lifetime in the Grille and Register Industry.

And again we give our Slogan "OVER TWO HUNDRED YEARS IN THE REGISTER AND GRILLE BUSINESS", which is the combined record of the executives of the Register and Grille Manufacturing Company, Incorporated.



REPRESENTATIVES

Are located in the following cities to give helpand assistance in the Register and Grille field.

Arizona—Phoenix
California—Berkeley
California—Los Angeles
Colorado—Denver
Connecticut—So. Norwalk
Dist. of Columbia—Washington
Georgia—Atlanta
Illinois—Chicago
Kentucky—Louisville
Louisiana—New Orleans
Louisiana—Shreveport
Maryland—Baltimore
Massachusetts—Boston
Michigan—Detroit
Minnesota—St. Paul
Missouri—St. Louis
North Carolina—Charlotte
New Jersey—Orange
New York—Buffalo
New York—Mineola, L. I.
New York—Rochester
New York—Syracuse
New York—Troy
New York—White Plains
Ohio—Cincinnati
Ohio—Cleveland
Ohio—Columbus
Ohio—Dayton
Pennsylvania—Harrisburg
Pennsylvania—Philadelphia
Pennsylvania—Pittsburgh
Texas—Fort Worth
Texas—Houston
Texas—San Antonio
Utah—Salt Lake City
Virginia—Lynchburg
West Virginia—Bluefield
West Virginia—Charleston

REGISTER AND GRILLE MFG. CO.

INCORPORATED

70 BERRY STREET **BROOKLYN, NEW YORK**

Telephone EVergreen 8-0443

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Director

BRUCE R. TUTTLE
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Secretary

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Treasurer

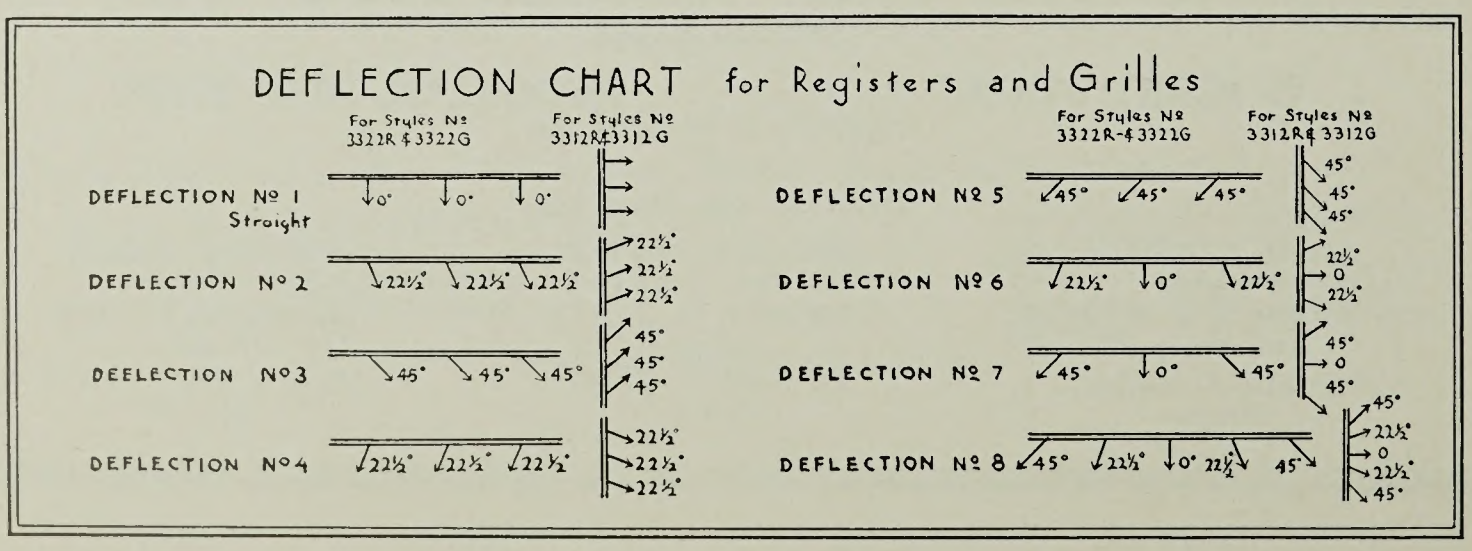
ERIC D. MOLLANDER
Director

KEY FOR ORDERING AIR CONDITIONING REGISTERS and GRILLES

Applying to the Three Types Most Frequently Used

ADJUSTABLE BAR TYPE—Throw adjustable, Right or Left, Straight, Up or Down. Adjustable After Erection

Type Register or Grille	*Finish of Face*	*Type of Louvres*	*Type of Frame*	*Operating Device*
ADJUSTABLE BARS 3310R (Register—Up-down throw) 3320R (Register—Right-Left throw)	Prime Coat Black White Nickel Plated Bronze Plated	The single valve is Standard and will be furnished unless one of following is specified. M.V. (Multiple Valve) see page 13 T.V. (Tandem Valve) see page 12 If T.V. send sketch	WO WX WT BX see page 10	The lever type is Standard, and will be furnished unless one of following is specified. Knob—see page 12 Key—see page 12
3310G (Grille—Up-down throw) 3320G (Grille—Right-Left throw)	also see finishes on Inside Front Cover	None with Grilles	If above type desired with Grilles order Register "less valves" see also page 4	None with Grilles
FIXED BAR TYPE—Fixed for Straight Throw				
FIXED BARS 3311R (Register — Design run Horizontally) 3321R (Register — Design run Vertically)	Prime Coat Black White Nickel Plated Bronze Plated	The single valve is Standard and will be furnished unless one of following is specified. M.V. (Multiple Valve) see page 13 T.V. (Tandem Valve) see page 12 If T.V. send sketch	WO WX WT BX see page 10	The lever type is Standard, and will be furnished unless one of following is specified. Knob—see page 12 Key—see page 12
3311G (Grille — Design run Horizontally) 3321G Grille — Design run Vertically)	also see finishes on Inside Front Cover	None with Grilles	If above type desired with Grilles order Register "less valves" see also page 4	None with Grilles
FIXED FIN TYPE—Fixed Throw (See Deflection Chart)				
FIXED FIN (see chart below) 3312R (Register—Up-down throw) 3322R (Register—Right-Left throw)	Prime Coat Black White Nickel Plated Bronze Plated	The single valve is Standard and will be furnished unless one of following is specified. M.V. (Multiple Valve) see page 13 T.V. (Tandem Valve) see page 12 If T.V. send sketch	WO WX WT BX see page 10	The lever type is Standard, and will be furnished unless one of following is specified. Knob—see page 12 Key—see page 12
3312G (Grille—Up-down throw) 3322G (Grille—Right-Left throw)	also see finishes on Inside Front Cover	None with Grilles	If above type desired with Grilles order Register "less valves" see also page 4	None with Grilles



The Latest Development for

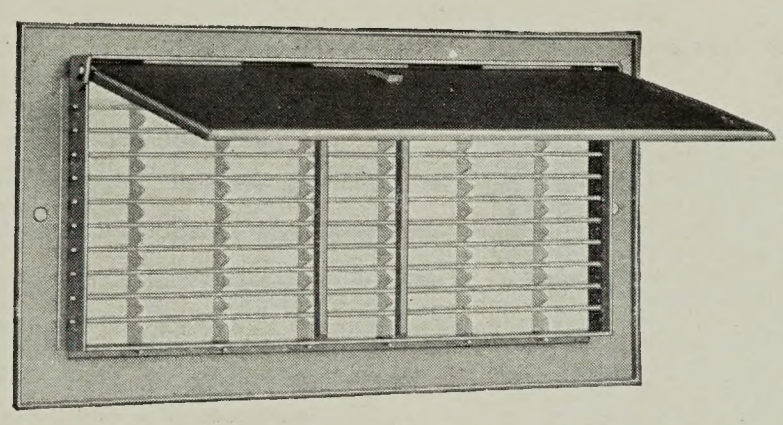
AIR CONDITIONING INSTALLATION

Adjust the Air Direction at the Outlet AFTER the Installation has been made.

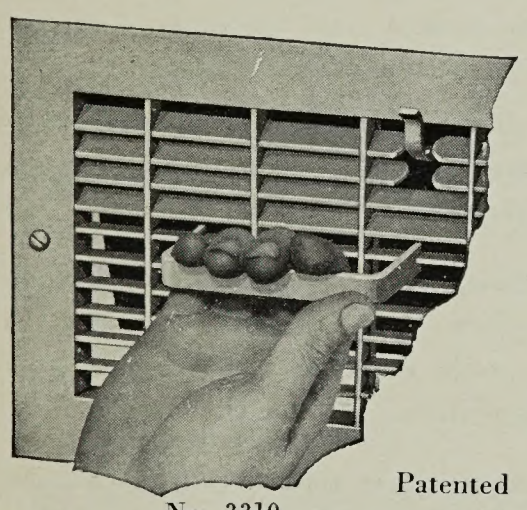
With engineers ever improving and ever changing methods of Air Conditioning installations, it has become necessary for the Registers and Grilles to be made more flexible to meet the requirements.

"REGISTER AND GRILLE MANUFACTURING COMPANY" suggests the famous "FABRIKATED" method to meet this new need. This construction gives exceptional strength. The interior steel bars are first assembled then blocked together under a heavy pressure and that entire unit securely attached to a welded outside angle frame.

Depth of design is demanded by Architects for general appearance; the large free air capacity by the engineer and the directional feature by the Architect, Engineer and Contractor. This type of grille or register combines all these requirements.

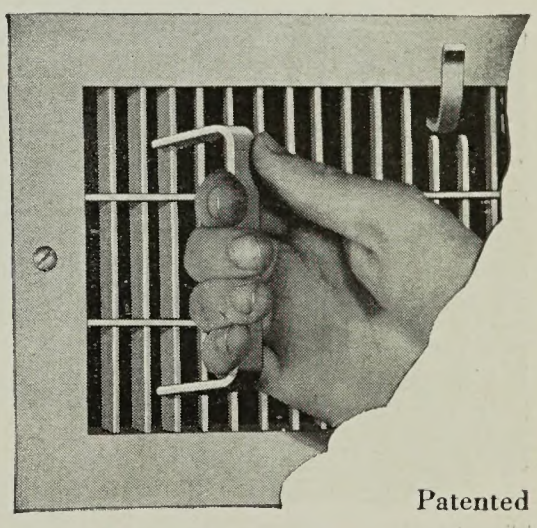


No. 3310 Register.—Back view, showing single valve.



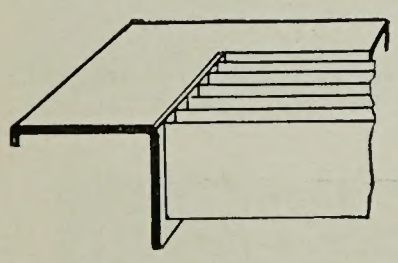
No. 3310

Patented

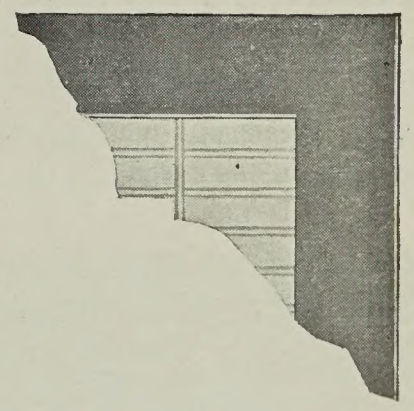


No. 3320.—Showing the simple and easy method of adjustment.

Patented



The outer rims of "Fabrikated" Register Faces lend themselves to air tightness. Note from the illustration how the edges are turned backward providing space in the rims to hold a felt or asbestos packing. Or the rim may be filled with patching plaster or cement, thus sealing the register face to the wall.



IMPORTANT—Read Before Ordering

The line of sizes, styles and finishes of Air Conditioning Registers and Grilles is so extensive that it is not feasible to carry them all in stock, and it may be necessary to complete some requirements after we receive the order. We urge that orders for this line be placed in advance of actual needs.

Information Needed to Fill Your Order

QUANTITY: (Number pieces wanted).

TYPE: (Register, Wall Grille, R.A.I., etc.)

SIZE: (Duct Opening or Stack Head; Horizontal dimension first *always*).

STYLE OF SETTING FRAME: (WX, WO, WT or BX). See Page 10.

STYLE OF DESIGN: (3320,3310, 3312, 3322, etc.)

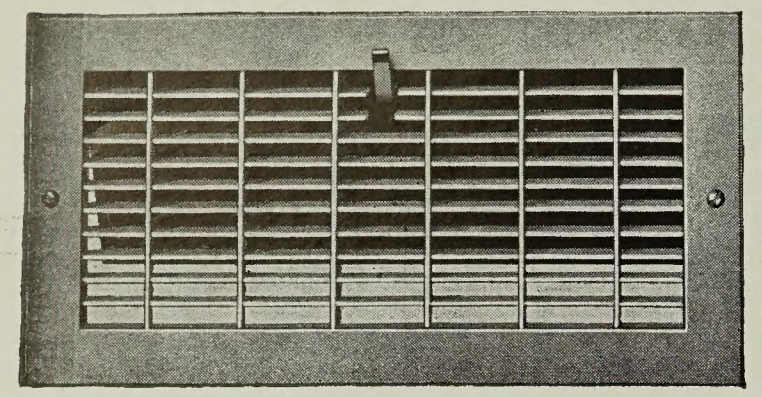
FINISH: (See Inside Front Cover.) Prime coat finish is furnished on all forced air registers and grilles if not otherwise specified.

All Forced Air Registers are shipped with Single Valves, as shown on this page, unless otherwise ordered.

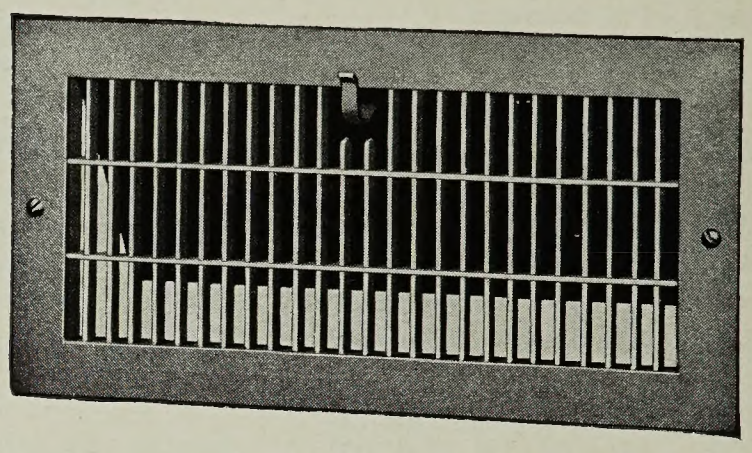
If *Multiple Valve Registers,* as shown on page 13, are desired, please specify as illustrated and described on that page. (VMV or HMV style No. 1 or 2).

ADJUSTABLE DIRECTED AIRFLOW REGISTERS

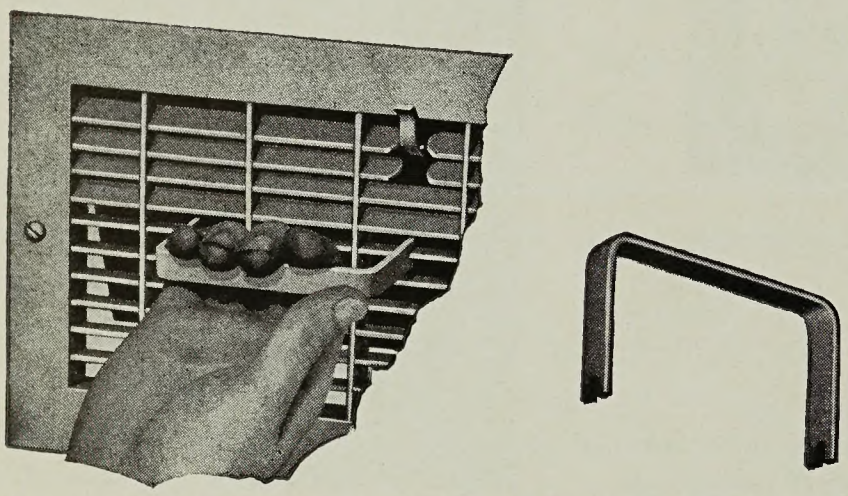
The Grille Bars May Be Adjusted to Direct the Air Flow to Any Desired Degree to 45 Degrees.



No. 3310R—Showing all Grille Bars set for Straight Air Flow



No. 3320R—Showing All Bars Set for Straight Air Flow. The No. 3320R differs from the 3310R in that the adjustable Grille Bars are vertical, permitting right and left deflection. Practically any combinations of right and left deflection to 45 degrees.



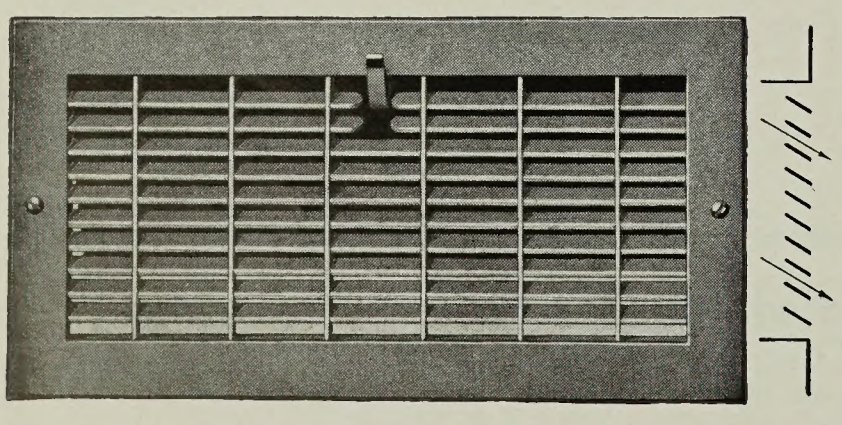
The 3310R or 3320R Register can be furnished with any of the styles of setting frames as shown on Page 10. Size of openings in the face: $1\frac{11}{16}$ x $\frac{3}{8}$ inches. Interior Bars: 14 Ga. (.078) x $\frac{1}{2}$ inch Cold Rolled Steel. Face Rim: Cold Rolled Steel.

The New 3310R and 3320R Adjustable Directed Air Flow Registers fill an ever growing need. With these registers the engineer is in complete control of the direction of air flow.

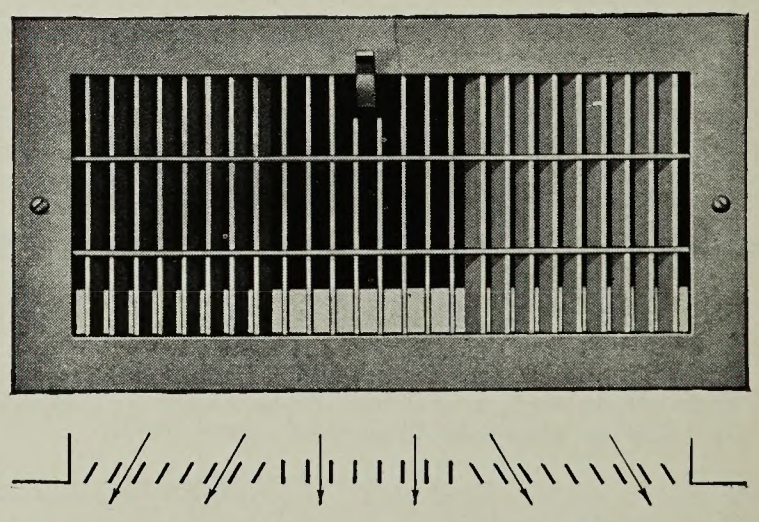
The directional adjustment can be made at the time of installing and after the system is operating it may easily be changed at any time to make corrections necessary to meet unforeseen or changed conditions.

The method of adjustment is very simple. With each order is included a tool for turning the grille bars. The picture shows the simplicity of the operation, and the ease with which the bars can be adjusted for any angle of deflection to 45 degrees.

These Registers can also be furnished with either the vertical or horizontal Multiple Valves, as shown on page 13.



No. 3310R—Air Flow Downward. Angle of deflection adjustable from straight to 45 degrees, up or down.

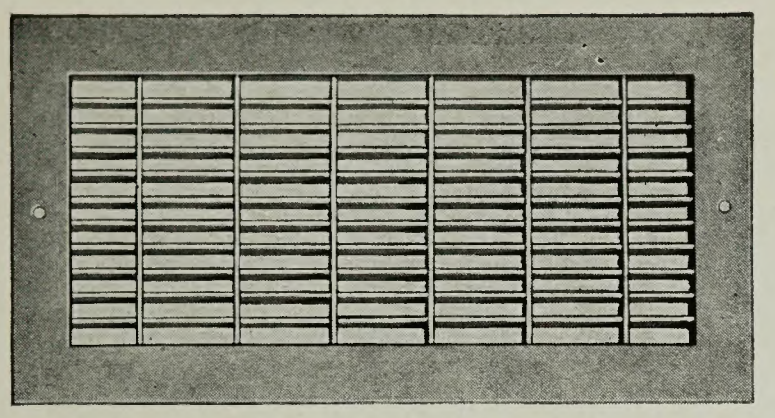


No. 3320R—A Fan Shape in Air Flow Deflection. Two Angles to the Left—One Straight Flow—Two angles to the Right. Any combination desired can be secured.

REGISTERS LESS VALVES

Often it is desired that the intakes be an exact match in size, and capacity, with the registers used. These can be furnished without valves and without lever slots, and should be ordered giving the number of the design followed by the letters LV.

ADJUSTABLE DIRECTED AIRFLOW GRILLES

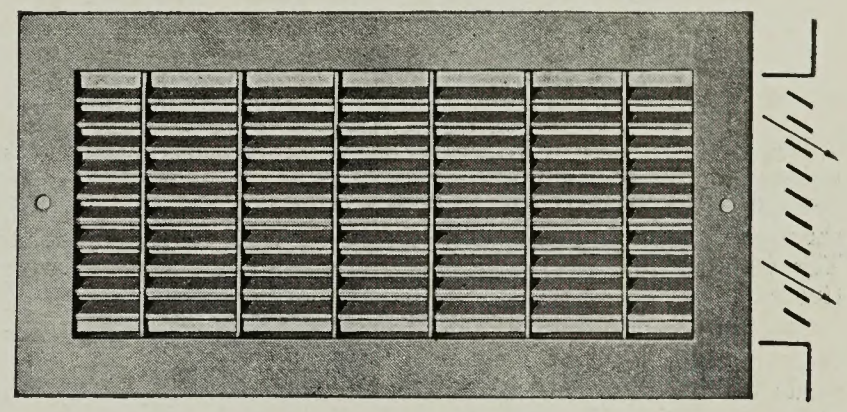


No. 3310G Grille—With grille bars adjusted for straight flow.

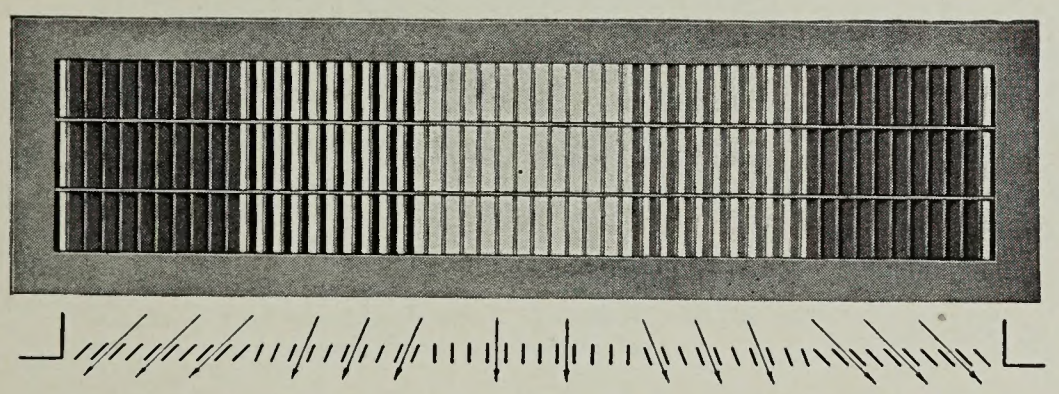
The adjustable feature of the Directed Air Flow Registers, shown on page 4, is available not only in the smaller sizes but also can be furnished in the larger sizes of Grilles. Practically any size can be furnished.

These grilles fully solve the problem of present-day requirements of Heating, Cooling and Ventilating Engineers for directed air flow.

The adjustable feature is fully explained on page 4. This same method of easy adjustment is built into the larger grilles, for use in commercial work. The adjustment may be made at the time of, or after the installation has been completed. Or if the angle of deflection is known, this adjustment may be made at the factory, at small additional cost.



No. 3310G Grille, showing downward air flow.

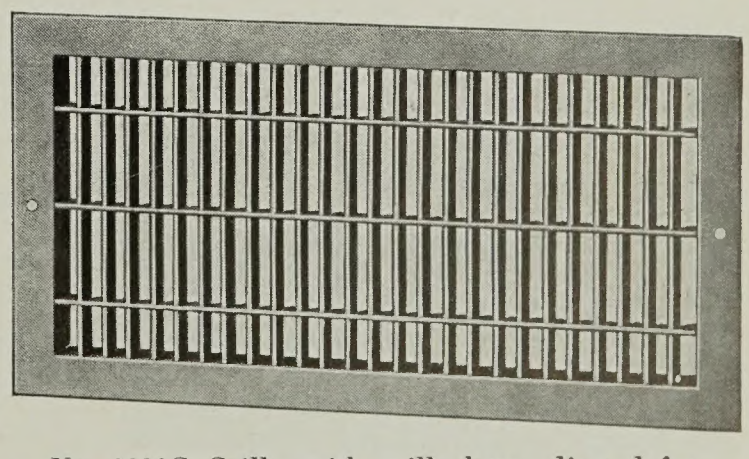


No. 3320G Grille: Combination—Right, Left, and Straight Air Flow.

In the No. 3310 the adjustment is for upward or downward Air Flow. A full range of 90 degrees—45 degrees upward to 45 degrees downward. From straight to 45 degrees in either direction, in as many combinations of adjustments as wanted; all at the will of the engineer.

The No. 3320 Design gives a Directed Air Flow to the right or left. Very much like the No. 3310, except that the adjustable grille bars are set in a vertical position, thus giving the right and left deflection. The angles of deflection, or the combinations to be had, are practically unlimited.

No. 3320 Grille. The many advantages of this grille are self-evident to the engineer who has been waiting for this adjustable feature, which now places him in complete control of the directional air flow on each installation.

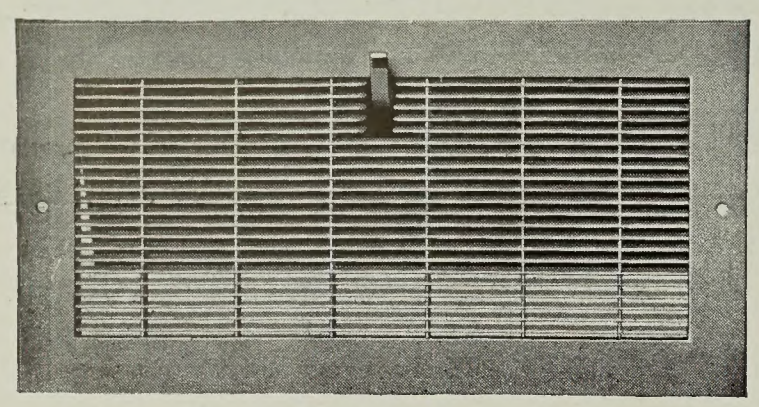


No. 3320G Grille, with grille bars adjusted for straight flow.

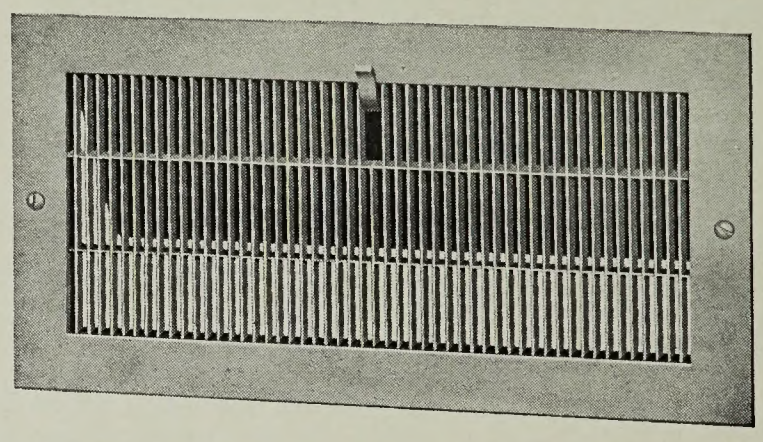
NOTE: Adjustable Directed Air Flow Grilles can besupplied in practically any size. Prices will be furnished upon receipt of specifications.

DIRECTED AIRFLOW REGISTERS FOR AIR CONDITIONING INSTALLATIONS

See Deflection Chart—Page 2



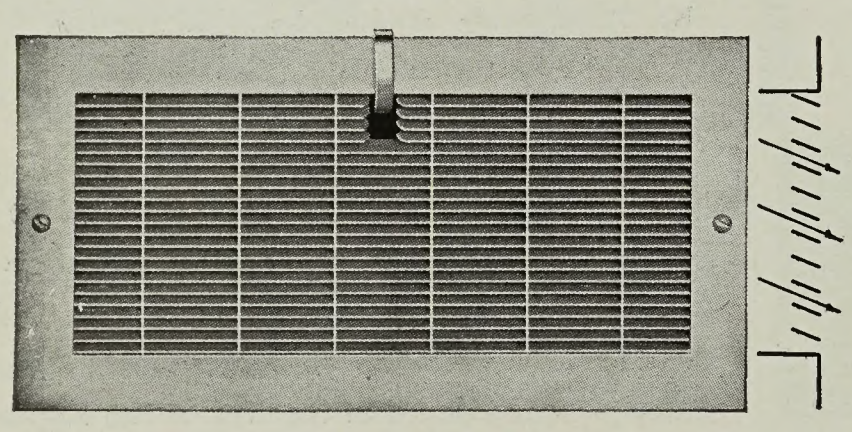
No. 3312R—With Straight Air Flow. Openings in register face, $\frac{3}{16}$ x $1\frac{33}{32}$ inches. Interior Bars: ½ inch deep x .032 (No. 20 ga.) thick.



No. 3322R — With Straight Air Flow. Openings in Register Face, $\frac{3}{16}$ x $1\frac{33}{32}$ inches. Interior Bars: ½ inch deep x .032 (No. 20 ga.) thick.

No. 3312R with Horizontal Bars. The interior grille bars are narrower and the openings between the bars smaller than on the "Fabrikated" registers shown on page 4. This gives a low visibility through the faces, fine appearance and "pencil proof" openings. The faces can be painted thus matching the grille finish with the tint of the wall.

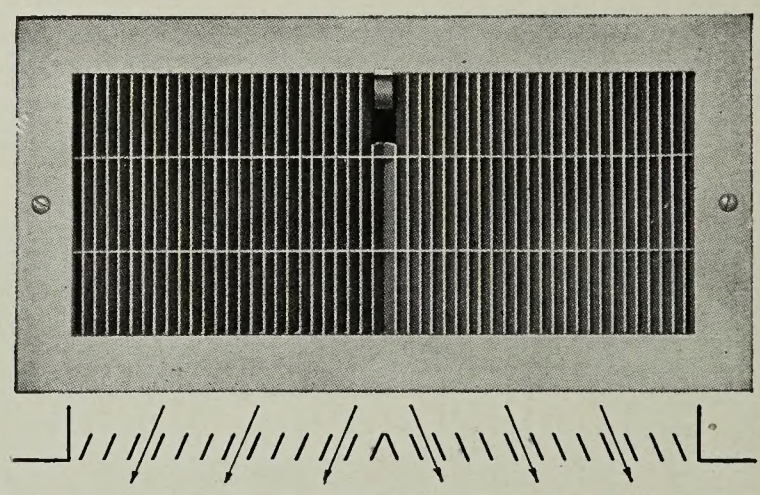
The interior grille bars are set in a permanent position when the face is made. The standard is with the bars straight but it is also made in No. 3312 with the bars set at angles of 22½ or 45 degrees either upward or downward, or any combination thereof.



No. 3312R—Downward Air Flow, 22½ degrees.

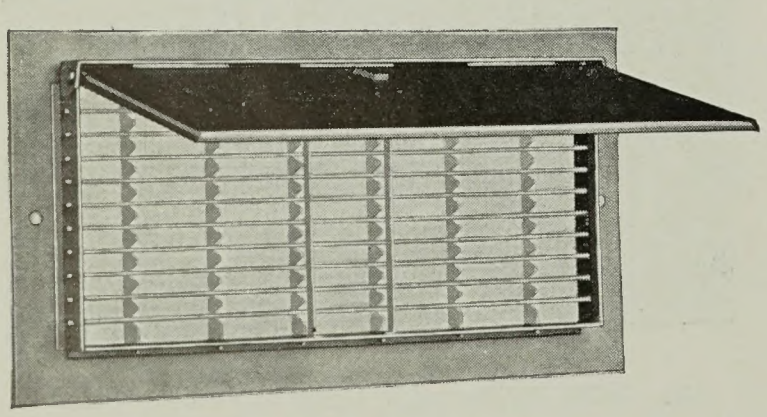
No. 3322R is also made with bars straight or at angles of 22½ or 45 degrees, either right or left, or any combinations thereof.

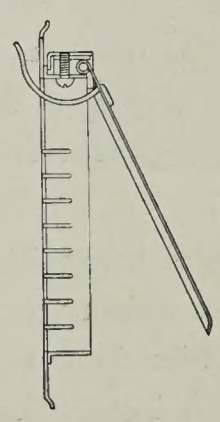
The standard wall construction is with single valves, but these registers can also be made with either horizonal or vertical multiple valves. The type of wall frame required, and described on Page No. 10 should be specified in writing.

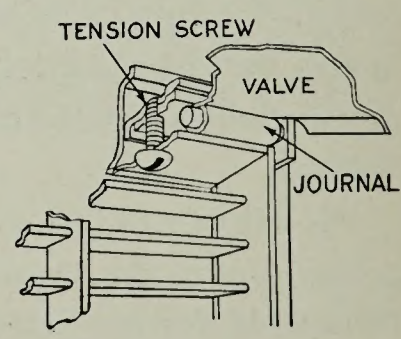


No. 3322R—Deflection to the Right and Left in angles of either 22½ or 45 degrees.

IMPORTANT: Orders should specify the type of directional flow *desired*. If not otherwise ordered, straight directional flow will be furnished.







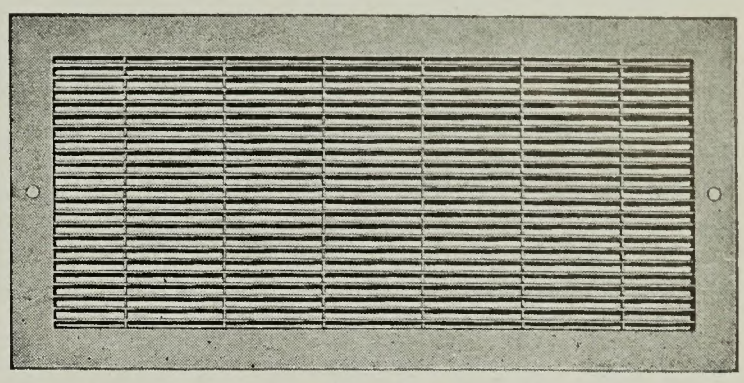
These views show the method of hanging the valves, the tension bars and screws, of all *"Fabrikated"* single valve Air Conditioning Registers. The valves open to full 90° and fit snugly; important features in Air Conditioning Registers. The tension screws may be tightened to hold the valve in any desired position.

DIRECTED AIRFLOW GRILLES

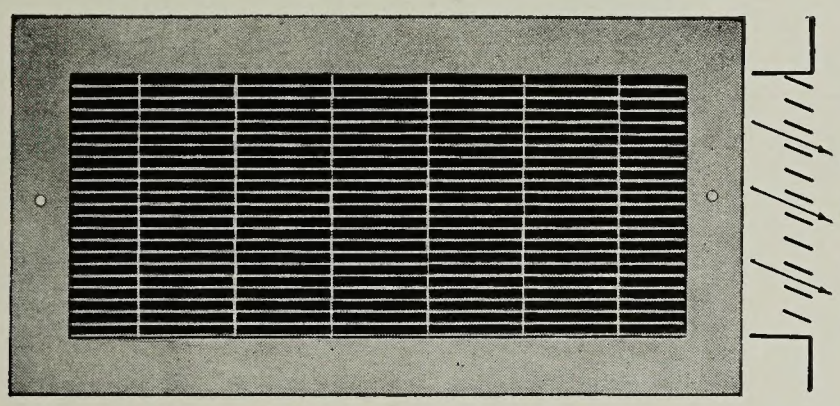
See Deflection Chart—Page 2

Nos. 3312 and 3322 Grilles are of "Fabrikated" construction with closer mesh and narrower interior grille bars than the designs illustrated on Page 5; openings $\frac{3}{16}$ x $1\frac{23}{32}$ in.

The Nos. 3312 and 3322 grilles are made at the time of assembly in the factory with the interior grille bars set for straight flow or for directional flow of either 22½ degrees or 45 degrees or any combination thereof, as may be specified. The grille bars are not adjustable as in the Nos. 3310 and 3320; the definite directional flow is built into the grilles at the time of manufacture.



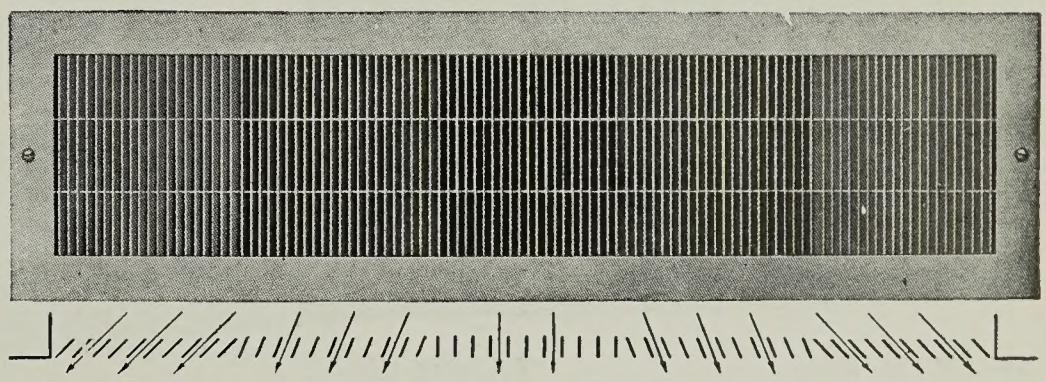
No. 3312G—With grille bars for straight air flow.



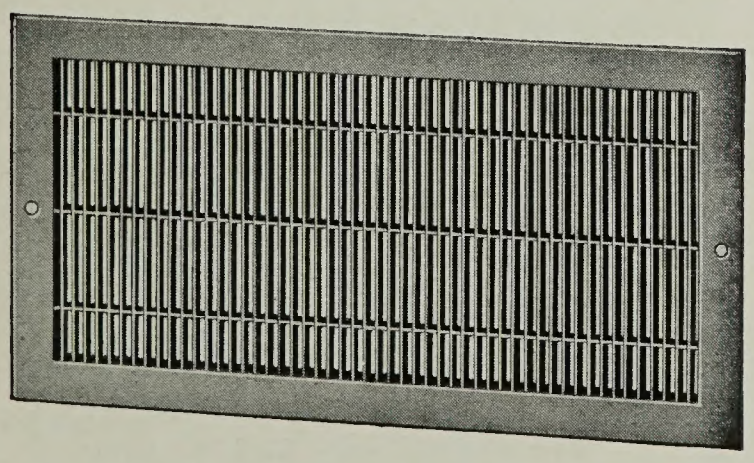
No. 3312G—Up or Down Deflection of 22½ or 45 degrees in either direction.

This grille has a large, unobstructed free area, approximately 87%—yet is extremely limited in visibility through the grille. The "Fabrikated" construction has back of it many years of proven merit and is accepted by the Heating, Cooling and Ventilating Engineers as engineeringly correct.

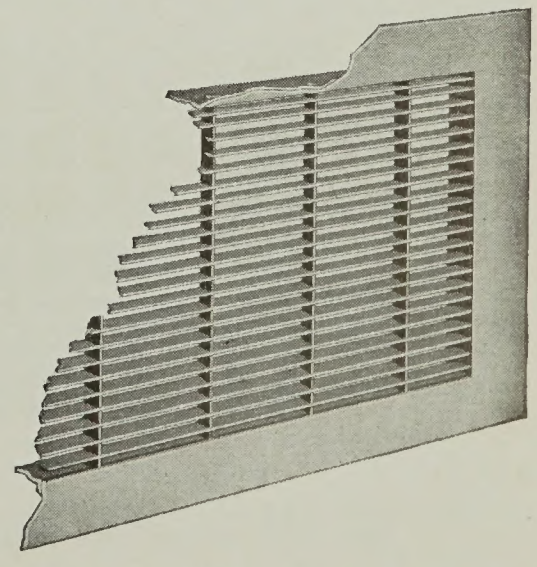
No. 3322. The air flow may be deflected to the right or left or straight ahead. Many combinations of right or left deflection can be had. These angles of deflection, which may be either 22½ degrees or 45 degrees, are fixed at time of assembly.



No. 3322G—Combination—Straight, with 22½ and 45 degrees.

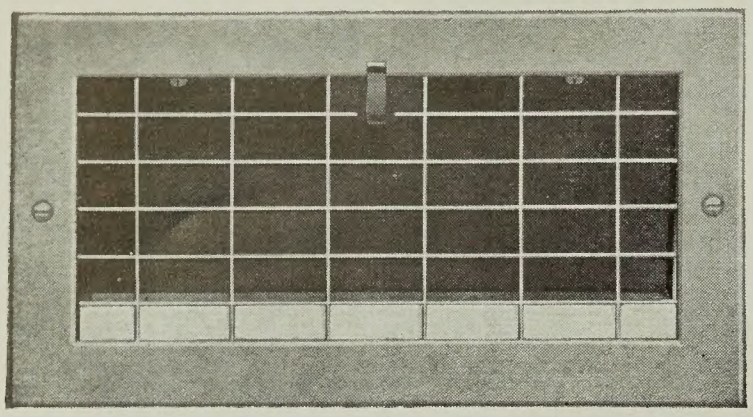


No. 3322G—Straight Air Flow

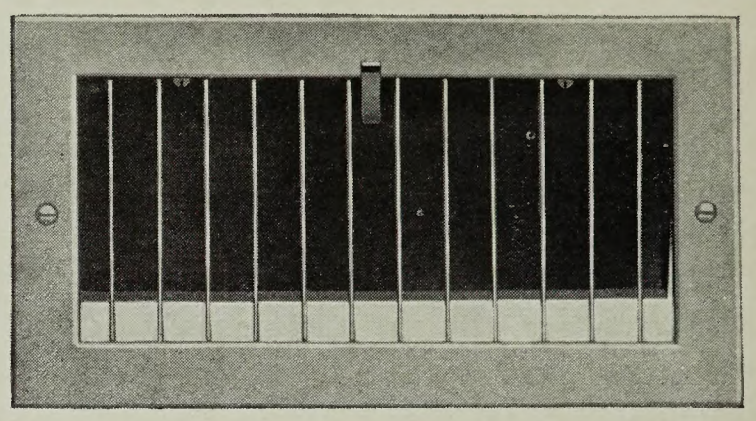


NOTE: The Nos. 3312 and 3322 grilles can be furnished in practically any size. Prices will be furnished upon receipt of specifications.

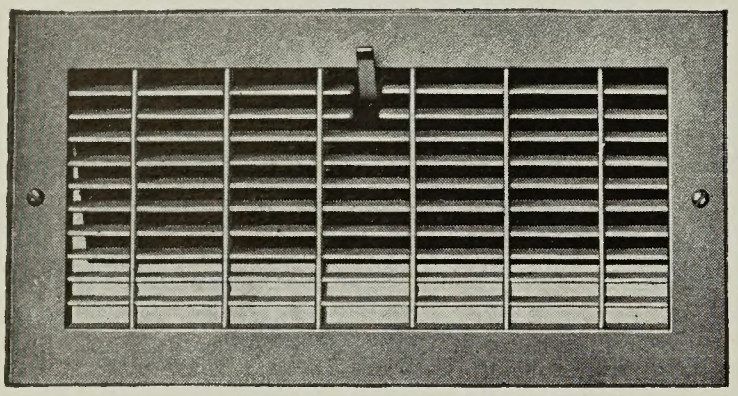
Additional Designs for AIR CONDITIONING REGISTERS or GRILLES



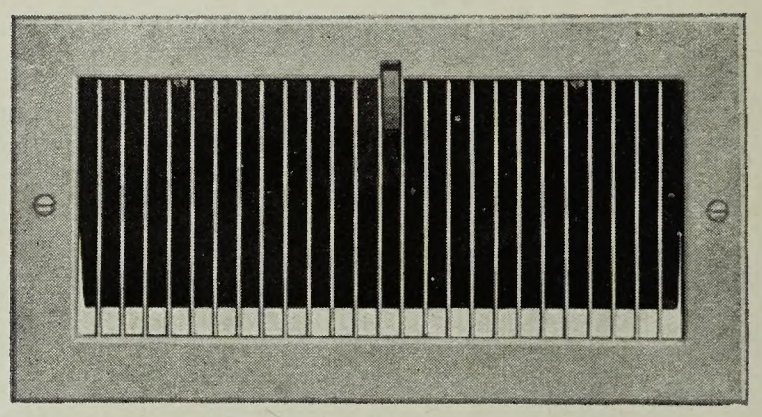
STYLE No. 3300 "FABRIKATED"
Mesh Size: $1\frac{11}{16}$"x¾". Interior Bar: ½" deep—14 ga.



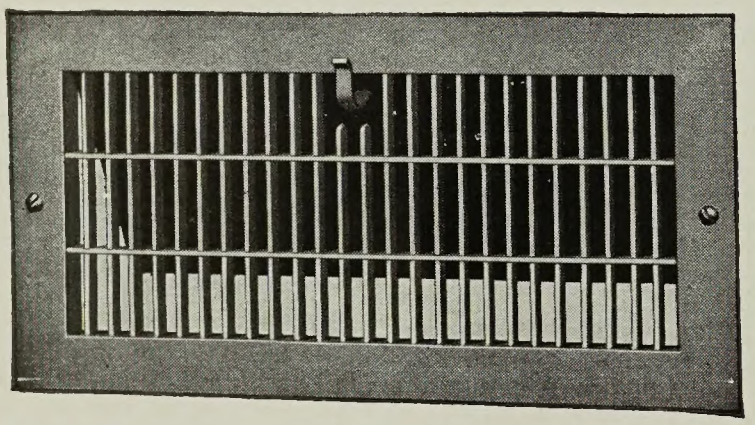
STYLE No. 3201 "FABRIKATED"
Mesh Size: ¾" wide. Interior Bars: ⅝" deep—14 ga.



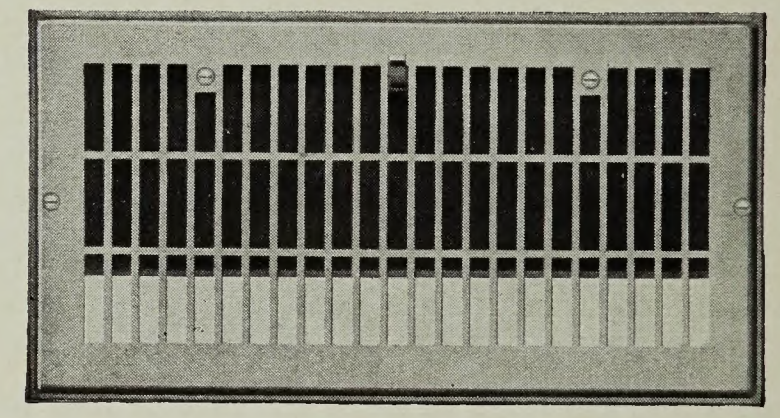
STYLE No. 3311 "FABRIKATED"
Mesh Size: $1\frac{11}{16}$"x⅜". Interior Bar: ½" deep—14 ga.



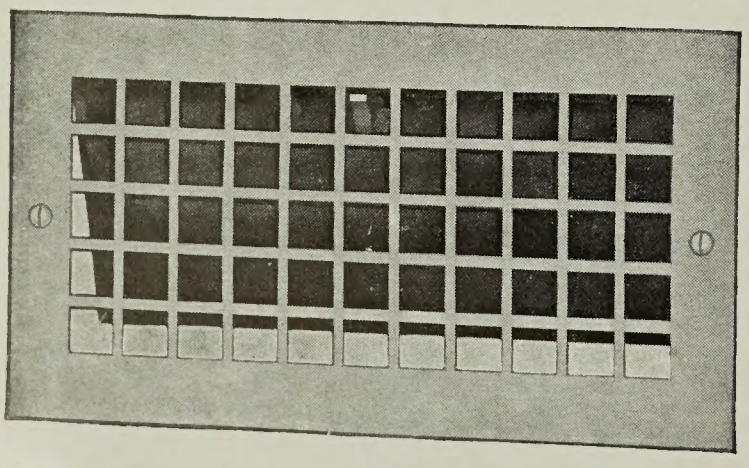
STYLE No. 3211 "FABRIKATED"
Mesh Size: ⅜" wide. Interior Bar: ⅝" deep—14 ga.



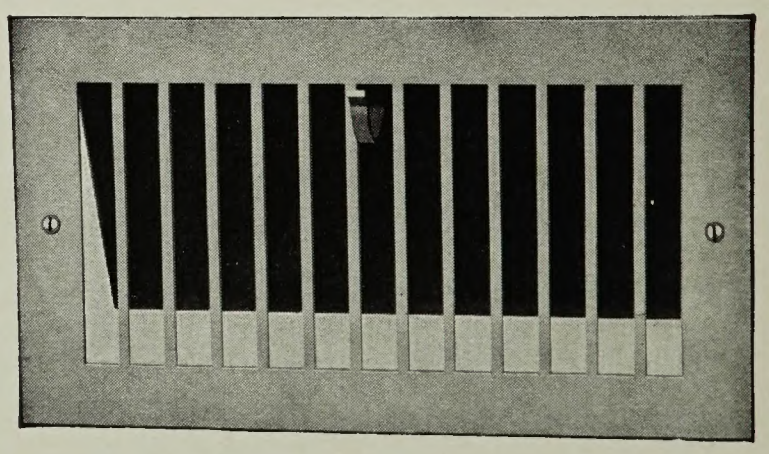
STYLE No. 3321 "FABRIKATED"
Mesh Size: ⅜"x$1\frac{11}{16}$". Interior Bar: ½" deep—14 ga.



STYLE No. 3137 BEVELED EDGE (B.E.)
Stamped Steel
Made in any horizontal size. Limited to 12" vertical.
Mesh Size: $1\frac{5}{8}$"x⅜". Bars: ⅛" wide.



STYLE No. 3182
Openings: .82 x .82 in. Crossbars: .18 in. wide.
Made with straight outer edges only.



STYLE No. 3158 Stamped Steel
Mesh Size: ⅝" wide. Bars: $\frac{3}{16}$" wide.
Faces with vertical dimension of 8 inches or more are made with a Horizontal Bar across the center.
Straight edge only.

These registers are made with the styles of setting frames described on Page 10, also can be furnished with Multiple Valves as shown on Page 13.

AIR CONDITIONING REGISTERS—for Use in Baseboards

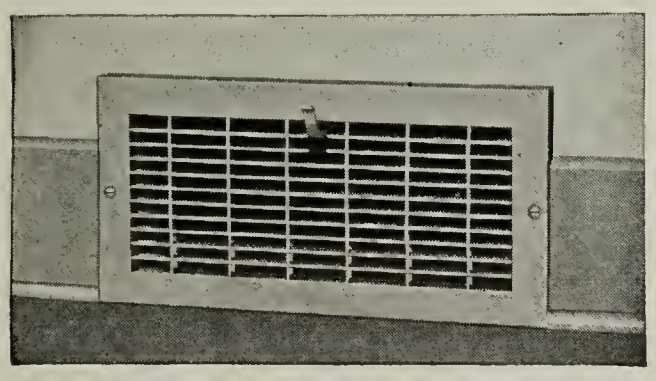
With Side and Top projecting flanges extending outward 7/8 inch from the plaster line.

Distance from floor to stack-head opening is 5/8".

ONE PIECE STYLE

Any design can be used in a baseboard installation. Specify the design number and letters B.O., meaning Baseboard One Piece.

Flanges for the connection with stackheads are provided on back of Register face. See Page 10 showing the BX frames.

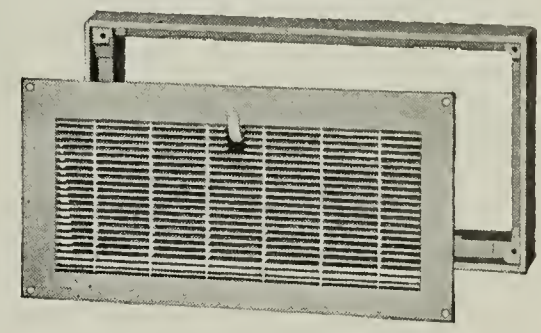


Cut at left is style
No. 3311 B.O.
Installed in Baseboard.

TWO PIECE STYLE

Any design can be used and is specified as Design Number and letters B.T. meaning Baseboard Two Piece. Design shown below is No. 3312 B.T.

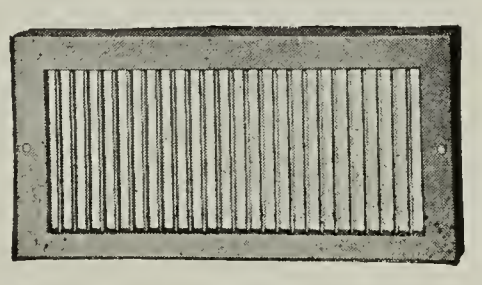
Stackhead flanges turn over the inner edge of the frame.



AIR CONDITIONING BASEBOARD INTAKES

With Side and Top projecting flanges extending outward 7/8" from the plaster line.

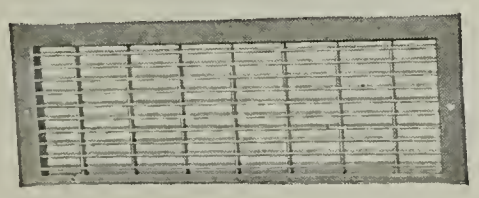
These flanges are a part of the Grille. Any design can be used in a Baseboard Intake. Specify design number and letters B.B.I. meaning Baseboard Intake.



Design shown is No. 3211 B.B.I.

AIR CONDITIONING R.A.I. INTAKES

Any design can be used as an R.A.I. Intake. It is the same as a Wall Grille with the bottom rim cut away. Used for flush installations in the baseboard.

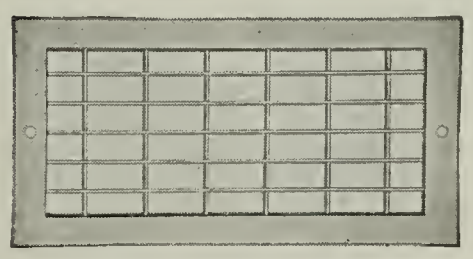


No. 3311 R.A.I.

AIR CONDITIONING WALL GRILLES

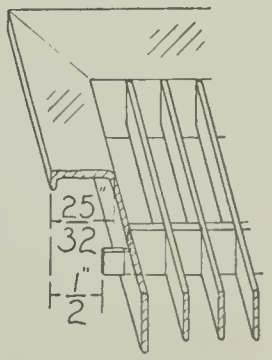
Rear flanges to fit into wall openings are a part of each grille. Not equipped with wall frames. The daylight opening sizes are larger and capacities greater than those of Air Conditioning Registers of corresponding stack head sizes.

Any design can be used as a Wall Grille. Design shown is No. 3300 W.G.

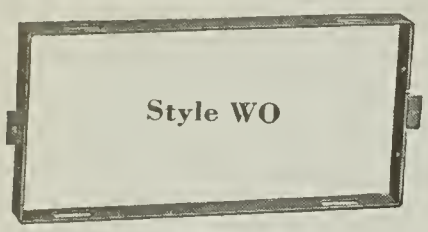


Design No. 3300 W.G.

Drawing shown is Design No. 3311 W.G.



FOUR STYLES OF SETTING FRAMES



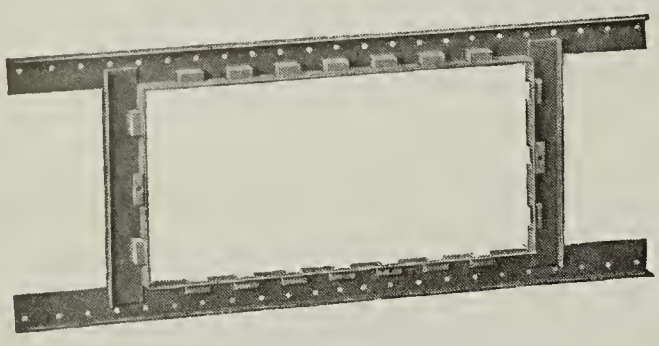
The style desired should be specified when ordering.

Style WO may be installed either before or after lath and plaster.

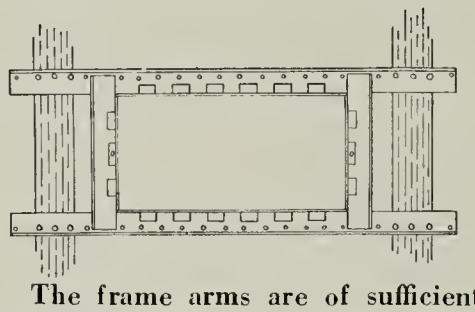
These frames set inside of the stack head flanges and are usually attached to them by sheet metal straps riveted to the stack head and turned back over the frame. Or, they may be attached by sheet metal screws. Slots are provided in the horizontal dimension; screw holes in the vertical dimension.

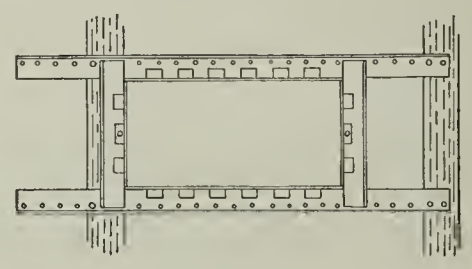
The register is screwed to the frame, to complete the installation. *The outer rims of the face cover any plaster deficiency around the stack head.*

STYLE WX—For Installation Before Lath and Plaster

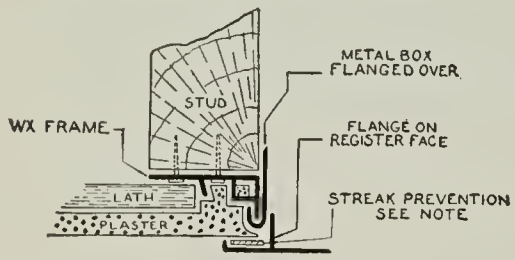


Standard Depth of Frame, ⅝ in.





The frame arms are of sufficient length so that the stack head may be located in any position desired between the studs; in the center or at the right or left.

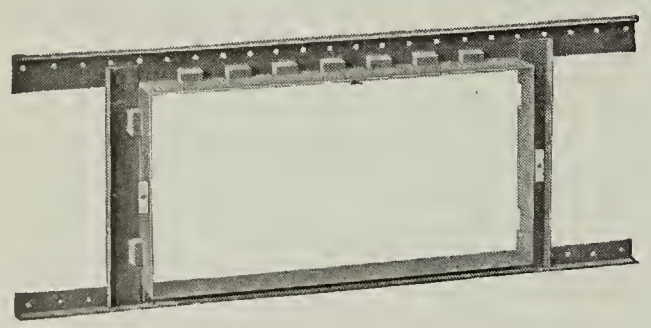


The stack head flanges should be made to extend through the frame opening, and of sufficient length so that they may be bent backward and over the outside of the frame edges, thus securing a tight and rigid connection between the stackhead and wall frame. The lath and plaster cover the arms, the plaster when completed being flush with the outer edges of the frame.

To complete the installation the register is screwed to the frame after plastering. *The outer rims of the register face extend beyond the frame edges and cover any plaster deficiency or* cracking around the frame.

NOTE: The rims of the register faces lend themselves to air-tightness being formed to provide space for felt, asbestos or plaster packing to seal the register to the wall.

STYLE BX FRAME

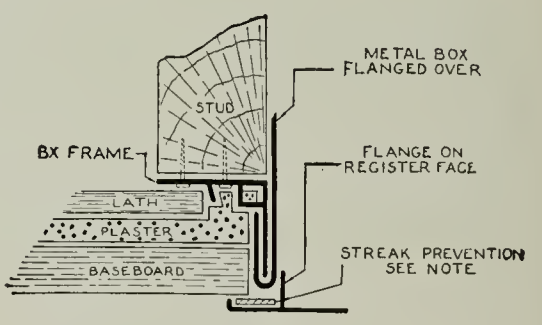


For installation previous to lath and plaster. Floor to stack head opening, ⅝ inch.

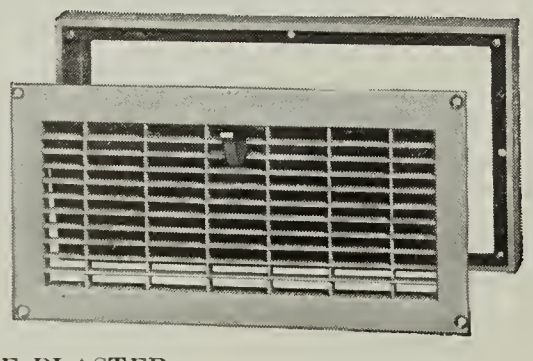
NOTE: The rims of the register faces provide space for felt, asbestos or plaster packing to seal the register to the baseboard.

The BX stack head flanges should extend outward from the plaster line the thickness of the baseboard, plus ½ inch, to provide material to be bent backward and over the outside of the frame edges.

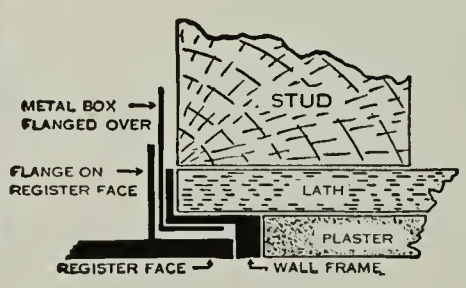
The BX frame arms are of sufficient length so that the stackhead may be located in any position desired between the studs; in the center or at the right or left.

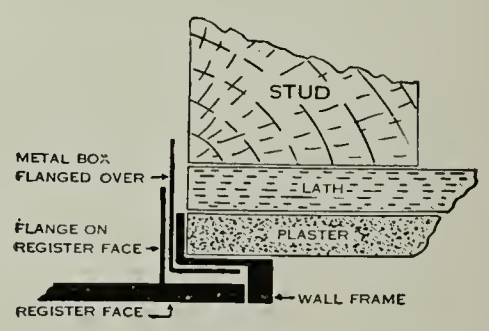


STYLE WT SETTING FRAME—For Installation Before or After Lath and Plaster



The wall frame and register are separate units, the register being removable from the frame. The user has the option of two methods of installation.





TO SET FLUSH WITH THE PLASTER:

The wall frame to be attached to the stackhead or duct before plastering, so that if the plaster is completed to the frame's outer edges, its outer surface and also the register face will be flush with the plaster.

IMPORTANT: The possibility of plaster cracking or rust discoloration around the frame should be given consideration before deciding upon the flush type of installation.

PLASTER SURFACE SETTING:

The frame sets on the plaster surface, its outer flange covering any deficiencies in the plaster around the wall opening. With this method the register and frame is installed after the plastering is completed.

SIZES OF REGISTERS

Daylight, Duct and Extreme

On Fabrikated Designs: 3201, 3211. 3300, 3310, 3311, 3312, 3320, 3321, 3322, sizes given in all tables are duct or stackhead sizes.

WALL REGISTERS—1 Piece: *Daylight* sizes will be minus ¾″ on width and 1⅛″ on height. *Extreme* sizes will be plus 1⅜″ on width and 1″ on height. Example: Duct size, 10x4; Daylight size, 9¼x2⅞; Extreme size, 11⅜x5.

WALL REGISTERS—2 Piece: *Daylight* sizes will be minus ¾″ on width and 1⅛″ on height. *Extreme* sizes will be plus 1 7/16″ on width and 1 7/16″ on height. Example: Duct size, 10x4; Daylight size. 9¼x2⅞; Extreme size 11 7/16 x5 7/16.

BASEBOARD REGISTERS—1 Piece: *Daylight* sizes will be minus ¾″ on width and 1⅛″ on height. *Extreme* sizes will be plus 1¼″ on width and 1 on height″. Example: Duct size, 10x4; Daylight size, 9¼x2⅞; Extreme size, 11¼x5.

BASEBOARD REGISTERS—2 Piece: *Daylight* sizes will be minus ¾″ on width and 1⅛″ on height. *Extreme* size will be plus 1½″ on width and 1¼″ on height. Example: Duct size, 10x4; Daylight size, 9¼x2⅞; Extreme size, 11½x5¼.

BASEBOARD INTAKES—*Daylight* sizes will be minus ¾″ on width and 1⅛″ on height. *Extreme* sizes will be plns 1¼″ on width and 1″ on height. Example: Duct size, 10x4; Daylight size, 9¼x2⅞; Extreme size 11¼x5.

WALL GRILLE: *Daylight* sizes will be minus 9/16″ on width and 9/16″ on height. *Extreme* sizes will be plus 1″ on width and 1″ on on height. Example: Duct size, 10x4; Daylight size, 9 7/16 x 3 7/16; Extreme size, 11x5.

RETURN AIR INTAKES—Bottom Rim of Wall Grille Cut Off: *Daylight* sizes will be minus 9/16″ on width and 9/16″ on height. *Extreme* sizes will be plus 1″ on width and ½″ on height. Example: Duct size, 10x4; Daylight size, 9 7/16 x3 7/16; Extreme size, 11x4½.

AIR CONDITIONING "Fabrikated"

Special Designs—Registers and Grilles

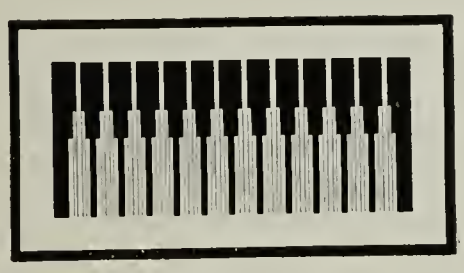
These designs made to order at an advance in price over standard designs. Any size—Any Finish.

CONSTRUCTION DATA

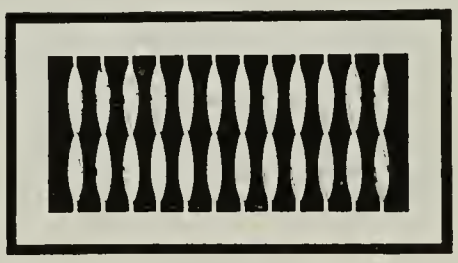
Interior Grill Bars—Thickness: .078 inch (No. 14 gauge). This thickness may be doubled by welding two bars or trebled by welding three bars together.

Standard bar depth: ½ inch, ⅝, ¾ or 1 inch depths can also be furnished.

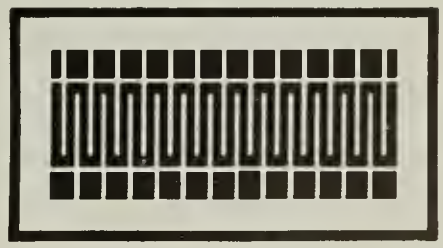
Center to center of bars: 7/16, ⅞ or 1¾ inches.



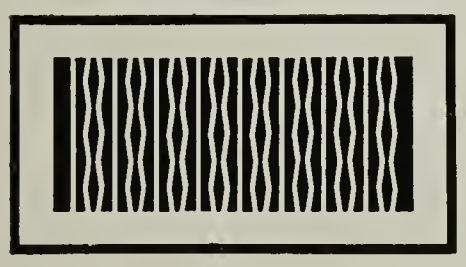
Design F10



Design F2

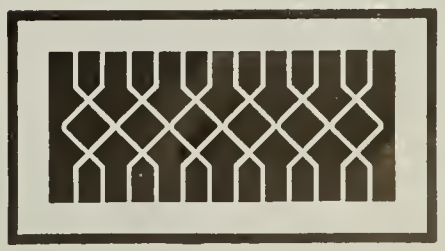


Design F3

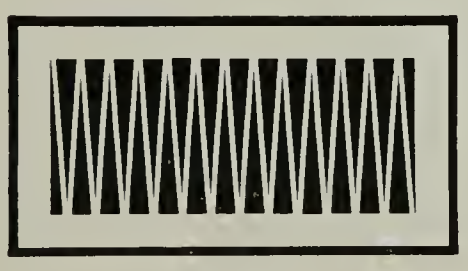


Design F4

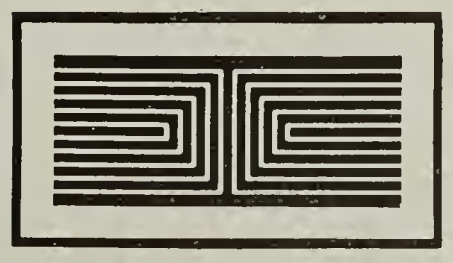
Design F5



Design F6



Design F7

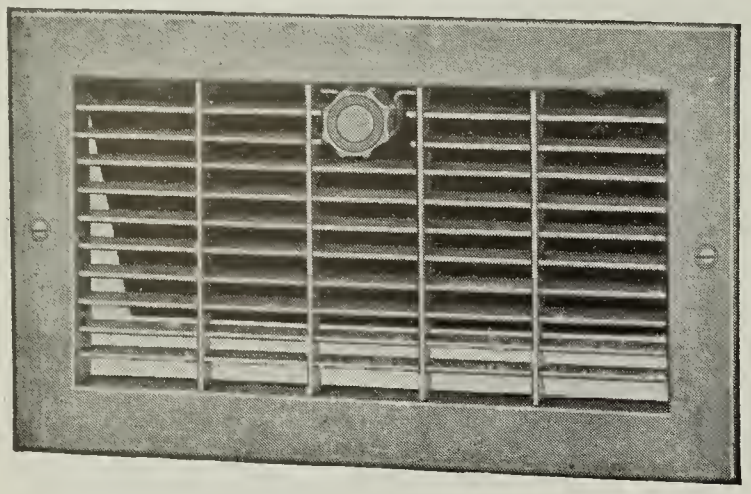


Design F8

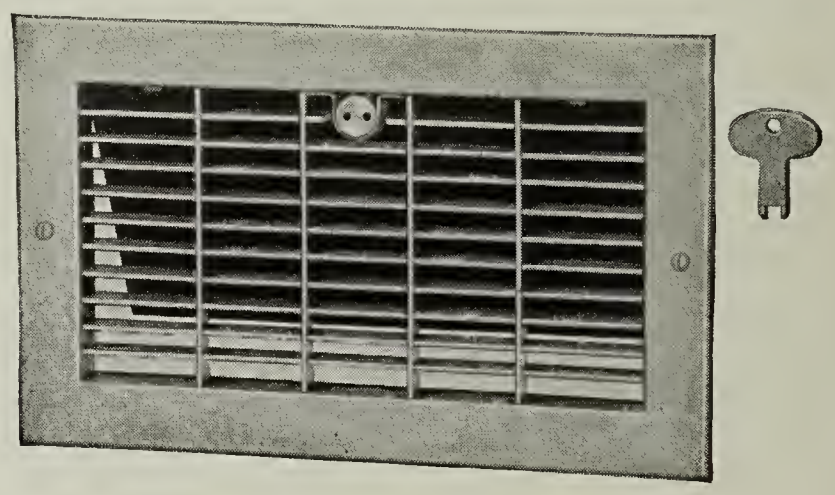
Design F9

AIR CONDITIONING—"Fabrikated" REGISTERS

Single valve registers are all equipped with lever operating handles as illustrated throughout this catalog. This is the usual requirement and is the style furnished unless otherwise specified. But any of the "Fabrikated" registers may be supplied with either knob or key valve control as shown below, at small added cost.



Knob Control — List Price, each extra $ .80

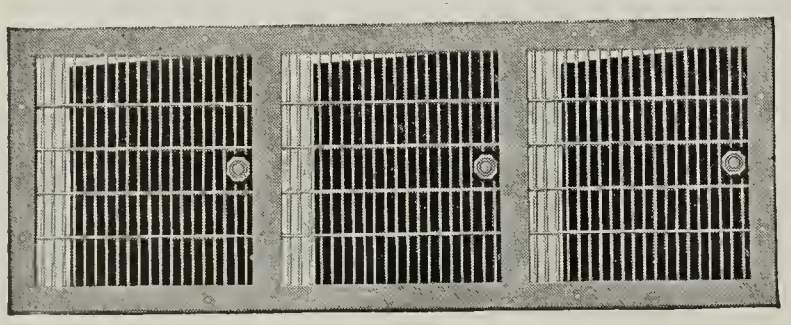


Key Control — List Price, each extra $ .60

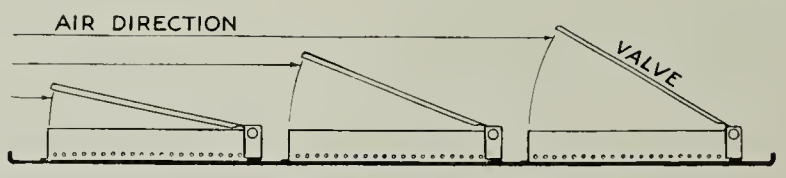
Can be supplied with any "Fabrikated" design.

REGISTERS WITH TANDEM VALVES

Tandem valves, either horizontal or vertical, as illustrated below, can be furnished in practically any size and in various combinations with any of the "Fabrikated" Face designs. Each valve is operated independently and can be adjusted to any position thus enabling the engineer to control the amount of air flow and to balance the system.

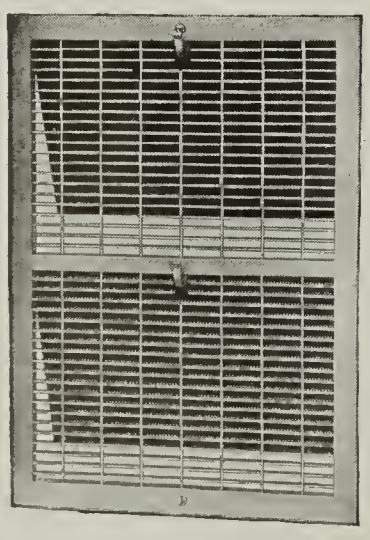


Either lever, knob or key operating device operates each valve individually. In ordering, the style of operating device desired should be specified.

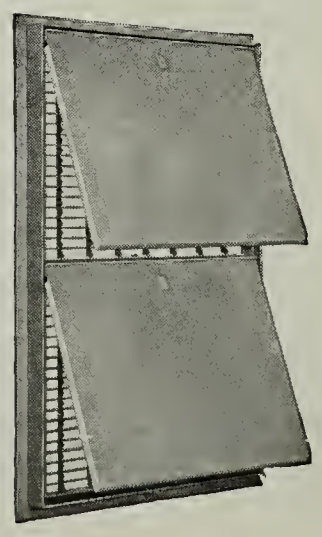


Illustrating the application of a register with vertically hung tandem valves.

The illustration above shows the No. 3320 "Fabrikated"; the grille bars may be individually adjusted to direct the air flow to the right or left. See page 4. With the No. 3310 shown below, "Fabrikated" the grille bars may be individually adjusted to direct the air flow either up or down. See page 4.



No. 3310



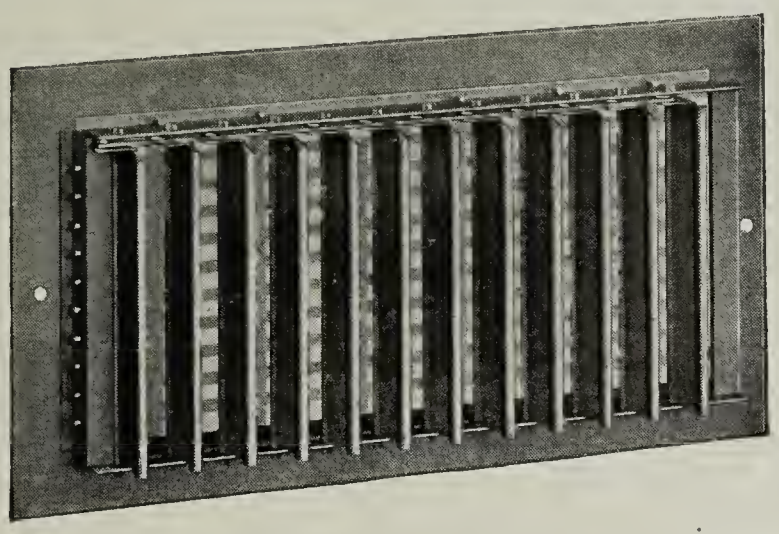
AIR CONDITIONING—"Fabrikated" REGISTERS

With Multiple Valves. For Wall, Baseboard or Ceiling.

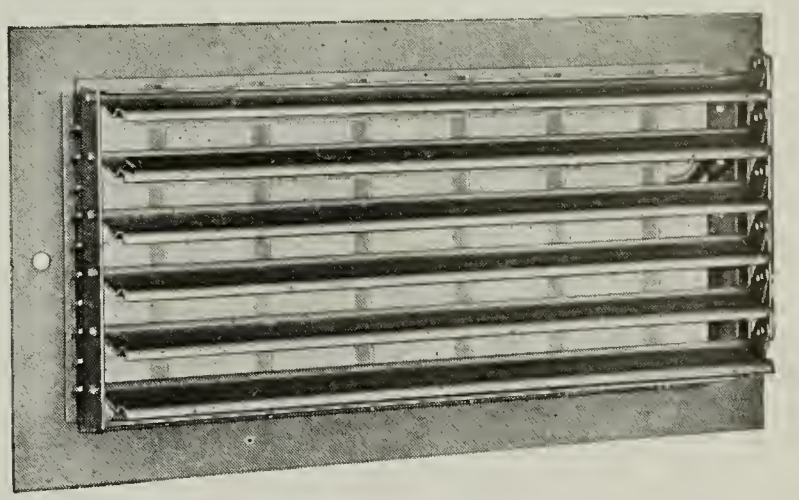
All Air Conditioning Registers are furnished with single valves unless otherwise ordered.

But—any Wall or Baseboard Register shown in this catalogue can be furnished with Multiple Valves as illustrated on this page.

The valves swing from their edges and, when closed, lay flat against the flanges on the back of the register face. With the valves closed the register depth is 1 inch, except on the side, or end of the operating lever, which is 1¾ inches. With the valves open the complete depth is 1⅞ inches. *Except:* If the valve length exceeds 16 inches the valves are made wider and the opened valve depth is 2¾.



Style VMV No. 1—Back View
Showing valve mounting and method of operation.



Style HMV No. 1—Back View
Showing valve mounting and method of operation.

MADE IN FOUR STYLES

VMV No. 1—With the valves running parallel with the vertical dimension of the register. *The valves connected* to operate in unison.

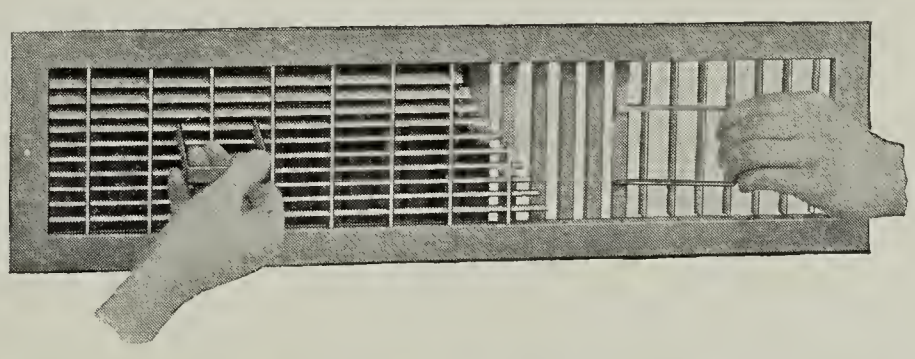
VMV No. 2—With the valves parallel with the vertical dimension of the register. *The valves not connected;* each valve may be individually adjusted to direct the air flow to the right or left.

HMV No. 1—With the valves running parallel with the horizontal dimension of the register. *The valves connected* to operate in unison.

HMV No. 2—With the valves parallel with the horizontal dimension of the register. *The valves not connected;* each valve may be individually adjusted to direct the flow either up or down.

The illustration shows the No. 3310 "Fabrikated" register with VMV No. 2 valves. The grille bars may be *individually adjusted* to direct the air flow up or down. The valves may be *individually adjusted* to direct the air flow to the right or left.

With the No. 3320 "Fabrikated" register and HMV No. 2 valves the grille bars may be *individually adjusted* to direct the air flow to the right or left and the valves may be *individually adjusted* to direct the air flow up or down.



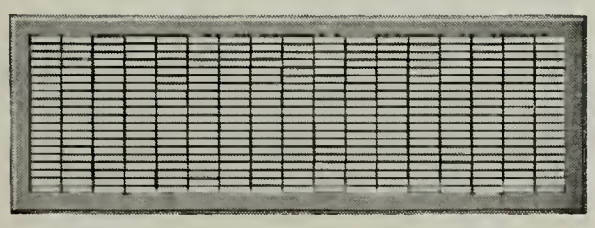
Practically any desired combination of directional air flow can be secured with these registers.

REGISTERS For Use in the Wall or Ceiling

If any of the registers illustrated in this catalog are located in the wall, out of hand reach from the floor, the valve lever can often be satisfactorily operated with a short pole. Or, if located in either the wall or ceiling, they can be operated by either chain or cord, the registers to be equipped with pulleys.

If pulleys are required, they should be specified at the time the order is placed, as they cannot be readily attached after the registers are installed.

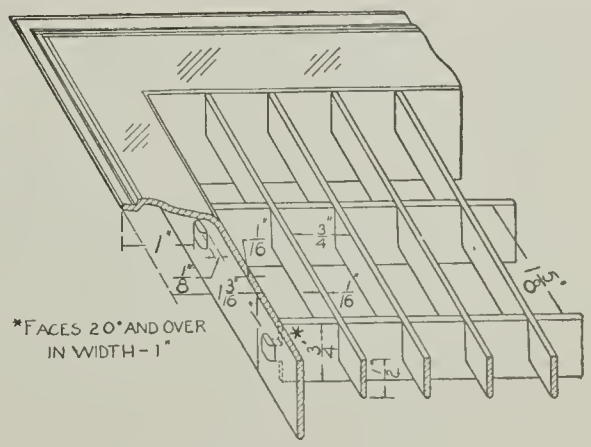
COLD AIR "FABRIKATED" FLOOR FACES



Close Mesh "Fabrikated"

Face Openings: ⅜x1 $\frac{11}{16}$ in. (approximate).
Uniform in design with No. 3311 Registers.
No. 3131 BE, Close Mesh: With beveled outer edges.
No. 3131 SE, Close Mesh: With straight outer edges, rims approximately ½ inch wider all four sides than the floor opening size.

All dimensions shown on cut at right apply to No. 3131 B.E. except ¾" between bars is changed to ⅜".



No. 3130 B.E. shown above.

CAPACITIES–CFM–Rating of Air Conditioning Registers

The CFM ratings on Fabrikated Registers and Grilles, as shown on the following page is based on the table or formula which has been used in computations for some time past and are conservative. Many thousands of successful installations have been made on the basis of this formula.

The 1936 Guide of the American Society of Heating and Ventilating Engineers, Chapter 43, page 765, gives a suggested formula, which was developed by Professor Lynn E. Davies in connection with a co-operative investigation between Armour Institute of Technology and the American Society of Heating and Ventilating Engineers.

This formula gives the capacity of registers and grilles when measurements are made with the ANEMOMETER.

VALUES OF "C" FOR VARIOUS VELOCITIES

Indicated Velocity F.P.M.	Supply Grilles
150	0.952
200	0.957
300	0.967
400	0.977
500	0.985
600	0.992
700	0.998
800	1.000
Values of C for average use — Low velocity	0.97
Values of C for average use — High velocity	1.00

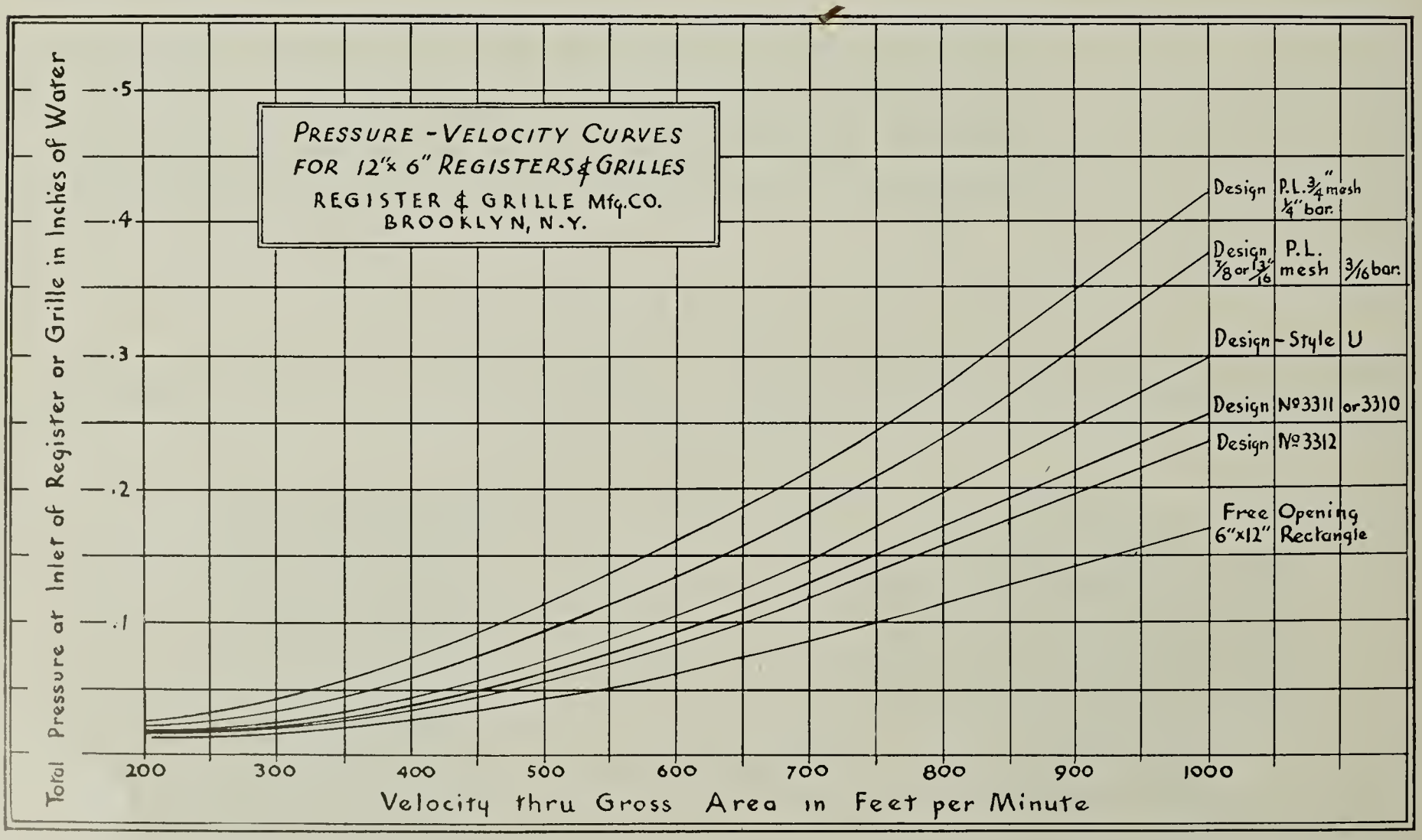
$$C \times V \times \left\{ \frac{A + a}{2} \right\} \text{ equals C F M}$$

C — A constant which varies with velocity.
V — Velocity measured by the anemometer.
A — Gross area of grille in square feet.
a — Net free area of grille in square feet.
(page 15 shows square inches)

EXAMPLE:

No. 3311 Register. Size 12 x 6
Gross area, 72″, or 0.5 Sq. Ft.
Net area, 43″, or 0.2986 Sq. Ft.
Velocity — 400 FPM

$$.977 \times 400 \times \frac{.5 + .2986}{2} \text{ equals 156 CFM}$$



CAPACITIES

Nos. 3311 or 3310 "Fabrikated" Wall Grilles

Grille Size	Open (Free) Area Sq.in.	Cubic Feet per Min. thru Grilles F. P. M. 200	250	300	380	400	500	600	800	Grille Size	Open (Free) Area Sq.in.	Cubic Feet per Min. thru Grilles F. P. M. 200	250	300	380	400	500	600	800	Grille Size	Open (Free) Area Sq.in.	Cubic Feet per Min. thru Grilles F. P. M. 200	250	300	380	400	500	600	800
8x6	33	46	58	69	88	92	116	139	185	5	63	87	109	131	166	175	218	262	350	8	151	210	262	315	399	420	525	630	840
10x4	26	37	46	55	70	74	92	110	147	6	78	108	135	162	205	216	270	324	432	10	182	253	316	379	480	505	632	758	1010
5	34	47	59	71	90	95	118	142	190	8	105	146	182	219	277	292	365	437	583	28x4	77	107	133	160	203	214	268	321	428
6	42	58	72	87	110	116	145	174	232	10	132	183	229	275	349	367	459	551	735	5	100	139	174	209	265	279	349	419	558
8	56	78	97	117	148	156	195	234	312	20x4	55	76	95	114	145	152	191	229	305	6	121	168	210	252	319	336	420	504	672
12x4	32	44	55	67	85	89	111	134	178	5	70	98	122	146	186	196	244	294	391	8	163	226	283	340	430	453	566	680	905
5	41	57	72	86	109	115	144	173	230	6	86	119	149	179	227	239	298	358	477	10	205	285	356	427	541	570	712	854	1140
6	50	70	88	105	133	140	176	211	281	8	116	161	201	241	306	322	402	483	644	30x4	83	115	144	173	219	231	288	346	462
8	68	94	118	141	179	189	236	283	377	10	145	202	252	303	383	404	505	606	808	5	107	148	186	223	282	297	372	446	595
9	76	106	132	159	201	212	265	318	424	22x4	60	83	104	125	159	167	209	251	335	6	130	181	226	272	344	362	453	544	725
10	85	119	148	178	226	238	297	357	476	5	77	107	133	160	203	214	268	321	428	8	175	243	304	365	462	487	608	730	973
14x4	38	52	66	79	100	105	132	158	211	6	95	132	165	198	251	264	330	396	528	10	220	306	383	459	582	613	765	919	1225
5	48	67	84	101	128	135	169	203	270	8	127	176	220	264	335	353	441	529	706	36x4	100	139	174	209	265	279	349	419	558
6	59	82	103	123	157	165	206	248	330	10	160	223	279	334	424	446	557	669	892	5	128	178	222	267	338	356	445	534	711
8	80	111	139	167	211	222	278	334	445	24x4	66	91	114	137	174	183	229	275	367	6	156	216	271	325	412	433	542	650	866
10	100	139	174	209	265	279	349	419	558	5	84	117	146	176	223	235	293	352	469	8	210	292	365	437	554	583	729	875	1165
16x4	43	60	75	90	115	121	151	181	242	6	103	143	179	215	272	287	359	431	573	10	264	366	458	550	696	733	916	1100	1465
5	56	77	97	116	147	155	194	233	311	8	139	194	242	291	368	388	484	582	775	46x4	128	178	222	267	338	356	445	534	711
6	68	94	118	141	179	189	236	283	377	10	175	243	303	364	461	485	607	728	971	5	163	226	283	340	430	453	566	680	905
8	93	129	161	193	245	258	323	387	517	26x4	65	91	113	136	173	182	227	273	364	6	199	276	346	415	525	553	691	830	1105
10	117	162	203	244	309	325	406	487	650	5	91	127	159	191	242	254	318	382	500	8	268	372	465	558	707	745	930	1117	1490
18x4	48	66	83	100	126	133	166	200	266	6	111	154	193	231	293	308	385	462	616	10	338	470	587	704	893	939	1178	1412	1883

Nos. 3312 or 3322 "Fabrikated" Wall Grilles

8x6	34	47	59	71	90	95	118	142	190	18x4	50	69	86	104	132	139	173	208	278	5	95	132	165	199	252	265	332	398	531
10x4	27	37	46	56	71	75	93	112	150	5	65	90	112	135	171	180	225	270	360	6	117	162	203	244	309	325	406	487	650
5	35	48	60	73	92	97	121	146	194	6	79	109	136	164	208	219	274	328	437	8	161	223	279	335	425	447	559	672	894
6	43	60	75	91	115	121	151	182	243	8	108	150	187	224	284	299	374	449	599	10	204	283	354	425	538	567	708	850	1135
8	58	80	100	120	153	161	201	241	322	10	138	192	240	288	364	383	479	575	766	28x4	80	111	139	167	211	222	278	334	445
12x4	33	46	58	69	88	92	116	139	185	20x4	56	77	97	116	147	155	194	233	311	5	103	143	179	215	272	287	359	431	573
5	42	58	72	87	110	116	145	174	232	5	72	100	125	150	190	200	250	300	400	6	126	175	219	262	332	350	437	525	700
6	52	72	90	108	136	144	180	216	288	6	88	123	153	184	233	246	307	369	492	8	173	240	300	360	456	480	600	720	960
8	71	99	124	149	188	198	248	298	397	8	121	168	210	252	319	336	420	504	672	10	220	306	383	459	582	613	765	919	1225
9	81	112	140	169	214	225	281	338	450	10	154	214	267	321	407	428	535	642	856	30x4	87	121	151	181	229	242	302	363	483
10	90	125	157	188	239	251	314	377	503	22x4	62	86	108	129	164	172	215	258	345	5	111	154	193	231	293	308	385	462	616
14x4	39	55	68	82	104	109	137	164	219	5	80	111	139	167	211	222	278	334	445	6	137	190	238	285	361	381	476	571	761
5	50	69	87	104	132	139	174	209	279	6	97	135	168	202	256	270	337	405	540	8	188	261	326	391	496	522	653	783	1042
6	61	84	106	127	161	169	212	254	339	8	133	184	231	277	351	369	462	554	738	10	238	331	413	496	627	661	826	992	1320
8	84	117	146	176	223	235	293	352	469	10	170	236	295	354	448	473	590	708	944	36x4	104	144	180	217	275	289	362	434	578
10	106	147	184	221	280	294	368	442	589	24x4	68	94	118	141	179	189	236	283	377	5	137	190	238	285	361	381	476	571	761
16x4	44	61	76	91	116	122	153	183	245	5	88	123	153	184	233	246	307	369	492	6	168	233	291	350	443	467	583	700	933
5	57	79	99	118	150	158	198	237	316	6	108	150	187	224	284	299	374	449	599	8	230	319	399	447	606	638	798	957	1275
6	70	98	122	146	186	196	244	294	391	8	148	205	257	308	390	411	514	616	822	10	286	397	497	596	755	794	993	1190	1585
8	96	133	167	200	253	267	334	401	534	10	188	261	326	392	496	522	653	784	1045										
10	122	169	211	254	321	338	423	507	676	26x4	74	103	128	154	195	205	257	308	411										

Nos. 3311 or 3310 "Fabrikated" Wall Registers, Baseboard Registers, Baseboard Intakes

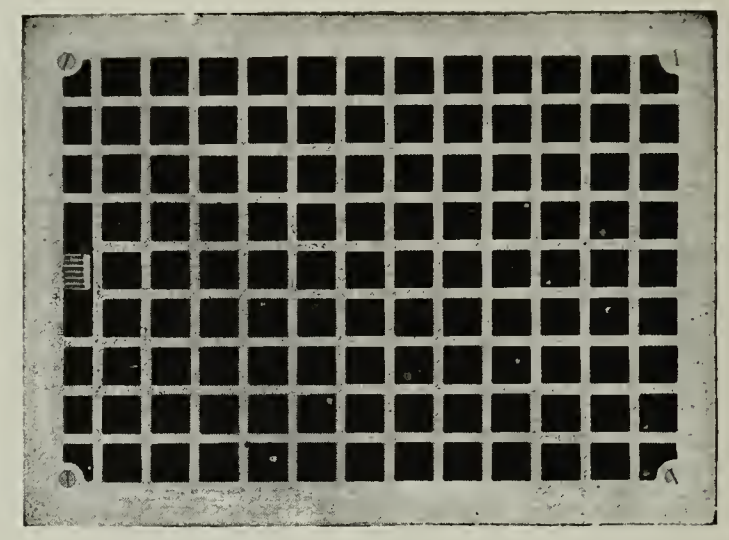
8x6	27	37	46	56	71	75	93	112	150	18x4	39	54	67	81	103	108	135	162	217	5	77	107	133	160	203	214	268	321	428
10x4	21	29	36	44	55	58	73	87	117	5	53	73	91	110	139	147	183	220	294	6	97	135	168	202	256	270	337	405	540
5	28	39	49	59	75	78	98	118	157	6	65	90	112	135	171	180	225	270	360	8	135	187	234	281	356	375	469	562	750
6	36	50	62	74	94	100	124	149	199	8	92	127	159	191	243	256	319	383	511	10	173	240	300	360	456	480	600	720	960
8	50	69	86	104	132	139	173	208	278	10	119	165	206	258	314	330	413	496	662	28x4	61	84	106	127	161	169	212	254	339
12x4	26	36	44	53	68	71	89	107	143	20x4	44	61	76	91	116	122	153	183	245	5	83	115	144	173	219	231	288	346	462
5	35	48	60	72	91	96	121	145	193	5	59	82	103	123	156	165	206	247	330	6	105	146	182	219	277	292	365	437	584
6	43	60	75	91	115	121	151	182	243	6	75	104	130	156	197	208	260	312	416	8	147	204	255	306	388	408	511	612	816
8	61	84	106	127	161	169	212	254	339	8	104	144	180	217	275	289	362	434	578	10	188	261	326	392	496	522	653	784	1045
9	69	95	120	143	182	192	240	288	383	10	134	186	233	280	354	373	466	559	745	30x4	66	92	115	138	175	185	231	278	370
10	78	108	135	163	206	217	271	326	434	22x4	48	66	83	100	126	133	166	200	266	5	89	123	154	185	235	247	309	371	495
14x4	30	42	52	63	80	84	105	126	168	5	65	90	112	135	171	180	225	270	360	6	113	157	196	236	298	314	393	472	628
5	41	57	71	85	108	113	142	171	228	6	82	114	143	172	218	229	287	344	459	8	158	220	274	329	417	439	549	659	879
6	51	71	89	107	136	143	178	214	286	8	114	158	198	237	301	316	396	475	633	10	202	281	351	422	534	562	703	843	1123
8	71	99	124	149	188	198	248	298	397	10	147	204	255	306	388	408	511	612	816	36x4	79	110	137	164	208	219	274	329	438
10	92	127	159	191	243	256	319	383	511	24x4	53	73	91	110	139	147	183	220	294	5	106	147	184	221	280	294	368	442	589
16x4	35	48	60	72	91	96	121	145	193	5	71	99	124	149	188	198	248	298	397	6	136	189	236	283	359	378	472	566	755
5	47	65	82	98	124	131	164	197	262	6	90	125	156	187	237	250	312	375	500	8	189	262	328	394	498	525	657	787	1050
6	58	80	100	120	153	161	201	241	322	8	125	174	217	261	331	348	435	523	697	10	242	336	420	504	638	672	840	1010	1345
8	82	114	143	172	218	229	287	344	459	10	160	223	279	334	424	446	557	669	892										
10	106	147	184	221	280	294	368	442	589	26x4	57	79	99	118	150	158	198	237	316										

Nos. 3312 or 3322 "Fabrikated" Wall Registers, Baseboard Registers and Baseboard Intakes

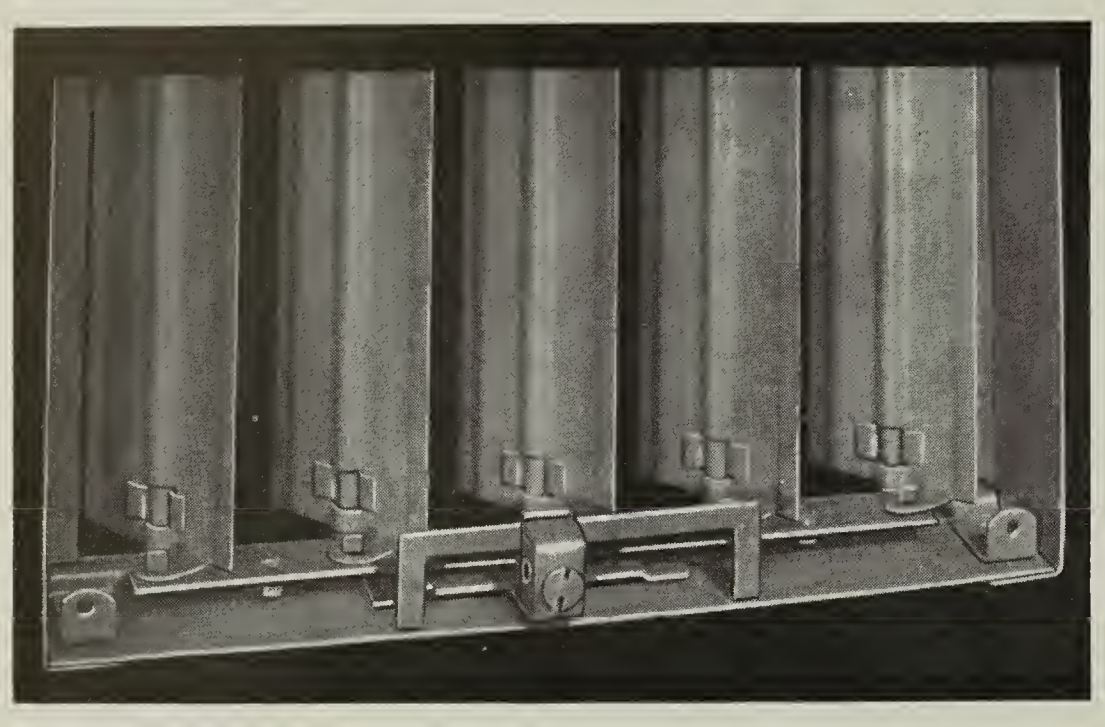
8x6	26	40	50	60	76	80	100	120	160	18x4	41	57	71	85	108	113	142	171	228	5	83	115	144	173	219	231	288	346	462
10x4	22	30	38	46	58	61	76	91	122	5	56	77	97	116	147	155	194	233	311	6	104	144	180	217	275	289	362	434	578
5	30	42	52	63	80	84	105	126	168	6	70	98	122	146	186	196	244	294	391	8	147	204	255	306	388	408	511	612	816
6	38	53	66	79	101	106	133	159	212	8	99	151	189	227	287	303	378	454	605	10	190	264	330	396	502	528	660	792	1055
8	53	73	91	110	139	147	183	220	294	10	128	177	222	266	337	355	444	532	710	28x4	66	92	115	138	175	185	231	278	370
12x4	27	37	46	56	71	75	93	112	150	20x4	45	62	78	93	118	125	156	187	250	5	90	125	156	187	237	250	312	375	500
5	36	50	62	74	94	100	124	149	199	5	63	87	109	131	166	175	218	262	350	6	112	156	195	234	296	312	390	468	625
6	46	64	80	96	121	128	160	192	256	6	78	108	135	162	205	216	270	324	432	8	159	221	277	332	421	443	554	665	886
8	65	90	112	135	171	180	225	270	360	8	111	154	193	231	293	308	385	462	616	10	205	285	356	427	541	570	712	855	1140
9	74	103	128	154	195	205	257	308	411	10	144	200	250	300	380	400	500	600	800	30x4	72	100	125	150	190	200	250	300	400
10	84	117	146	176	223	235	293	352	469	22x4	51	71	89	107	135	142	178	213	284	5	97	135	168	202	256	270	337	405	540
14x4	32	44	55	67	85	89	111	134	178	5	69	95	120	143	182	192	240	288	383	6	122	169	211	254	321	338	423	507	676
5	43	60	75	91	115	121	151	182	243	6	87	121	151	181	229	242	302	363	483	8	173	240	300	360	456	480	600	720	960
6	54	75	94	113	144	151	189	227	303	8	123	171	213	256	325	342	427	513	683	10	223	310	387	465	588	619	774	928	1238
8	76	106	132	159	202	212	265	319	425	10	158	221	276	331	418	442	552	662	883	36x4	87	121	151	181	229	242	302	363	483
10	98	136	170	204	258	272	340	408	544	24x4	56	77	97	116	147	155	194	233	311	5	117	162	203	244	309	325	406	487	650
16x4	37	51	64	77	97	103	128	154	206	5	76	106	132	159	202	212	265	319	425	6	147	204	255	306	388	408	511	612	816
5	49	68	85	102	129	136	170	204	272	6	96	133	167	200	253	267	334	401	534	8	208	289	361	433	548	577	722	865	1157
6	62	86	108	129	164	172	215	258	345	8	135	187	234	281	356	375	469	562	750	10	269	374	467	561	710	747	934	1120	1490
8	87	121	151	181	229	242	302	363	483	10	175	243	303	364	461	485	607	728	971										
10	113	157	196	236	298	314	393	472	628	26x4	61	84	106	127	161	169	212	254	339										

REGISTERS are used for the supply or exhaust of the air in rooms, and are located in either the floor, walls or ceiling. Different kinds of registers are best suited for different locations. We show four different types of multiple fan registers with suggestions for their adaptability.

AT THE RIGHT is shown the Plain Lattice, Cast face, register which style has stood the test of time. It is especially adapted for use in the floor, and with the cast face and steel bottom combines the good qualities of both cast and steel. The face gives strength and depth of design, and the steel bottom gives lightness and ease in handling. This register is also made with a Cast iron bottom which is still very popular with some Architects and Engineers. This register can also be made with the face of any of our special designs or made to the Architect's own creation.



Style 360 with Cast top and Steel bottom
Style 330 with Cast top and cast bottom



LOCK REGISTERS are necessary when the control of the air is of great importance. We show here the locking feature of our register. This bottom can be used with any type of face cast, stamped or "Fabrikated" and with either plain lattice design or special designs. Lock registers are generally used in walls and therefore the all steel is the most popular. Particular attention is called to the fact that this type of lock register cannot be operated with a screw driver or similar instrument. The *Key*, making it a real lock, *must* be used.

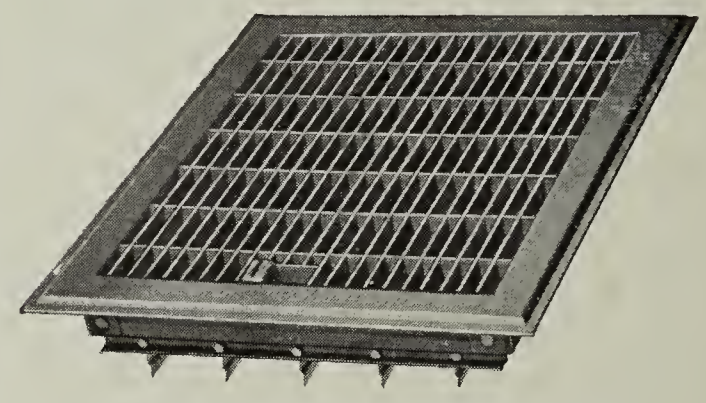
Semi steel lock register—Style No. 3360. All steel lock register—Style No. 3370
Close mesh "Fabrikated" Lock register—Style No. 33

CAST IRON REVERSE BEVEL WALL FRAME

The Wall Frame shown at left is being revived by Architects, Engineers and Contractors. Made in depths of either 2" or 4". The frame is installed while the walls are being built, which insures a strong and rigid backing for the register or grille. It makes wood bucks or other types of frames unnecessary. It speeds up deliveries because the registers or grilles must be ordered with the frames to assure a perfect fit.

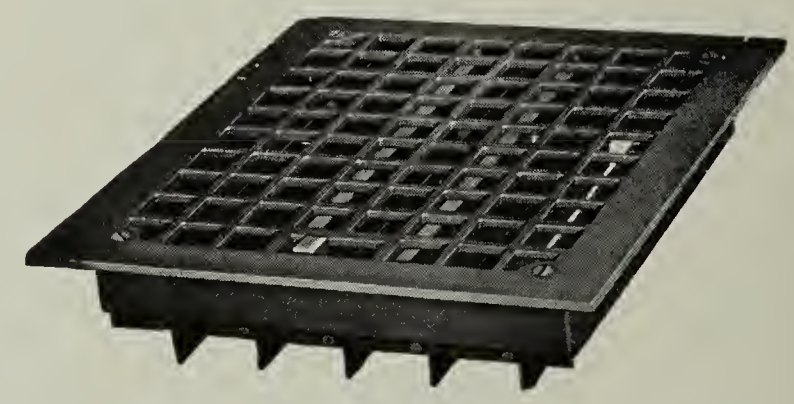
When ordering specify the size of the register or grille required and the Reverse Bevel Wall Frame will be properly made to fit.

Made in all standard sizes of registers.



No. 3 CLOSE MESH "FABRIKATED"
Face Openings $\frac{3}{8}$" x $1\frac{11}{16}$" (approximate)

STYLE 3 is the new close mesh "Fabrikated" floor register. This register made on the famous "Fabrikated" principle combines, as does the Cast register, the depth of design with the strength of steel bars. One very important feature of this register is its capacity, or free air opening, at the same time keeping the openings small enough to prevent a ladies French heel from slipping through the fret work. Furnished with Straight Edge or Beveled Edge.



STYLE 370 is the All Steel Register. Very popular for use in either walls or ceiling. It is made of heavy gauge steel (generally No. 12 Ga.) but is light to handle, though sturdy and strong. We do not recommend the use of steel registers in the floor unless the gauge is increased to at least $\frac{3}{16}$" thick. The lighter gauges sometimes sag and buckle under constant pressure and use in the floor.

Grilles

The Secret of proper casting of Grilles and Registers lies in the making of the patterns and the artistic touch of the hand finisher. In both cases it is the EXPERIENCE and skill of the individual.

Our pattern makers and our finishers are all men with years of experience, many of them having spent their lifetime in the Grille and Register industry.

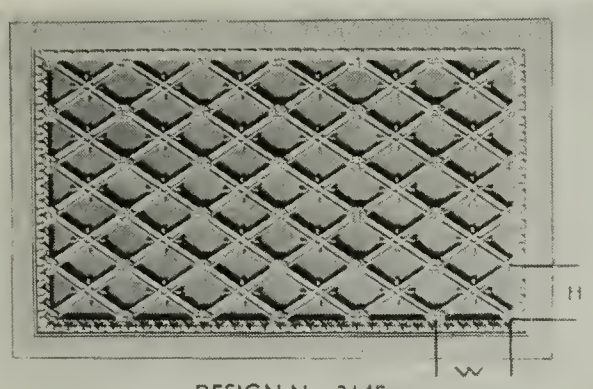
Cast

On this, and the following pages we show a number of standard patterns — standard in the sense that unit molds are available from which the entire pattern is made. We are also in a position to manufacture any special design which the Architect or Engineer may detail or develop. We hold ourselves ready at all times to assist the Architect, Engineer or Contractor with their Grille problems.

Special Design

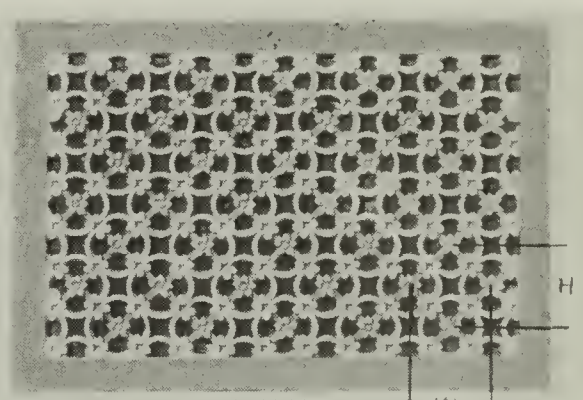
In the treatment of your Grille requirements specify Cast "R & G" Grilles of either special or any following numbered designs.

The following designs can be cast in Iron, Bronze, Brass or Aluminum.

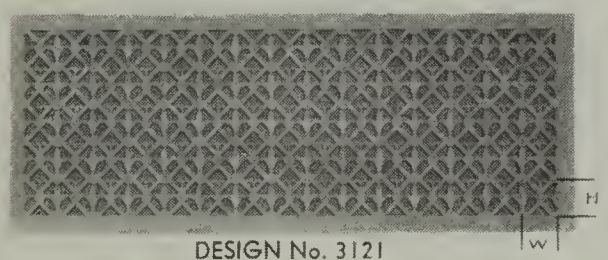


DESIGN No. 3145
Unit 1 3/4" High x 2 3/4" Wide—F.A.O. 50%

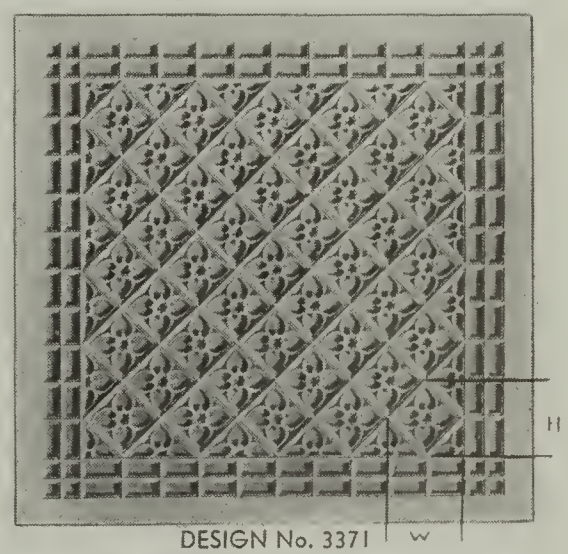
DESIGN No. 3238
Unit 25 3/4" Wide x 53 3/8" High
F.A.O. 55%
(Prize Winning Grille)



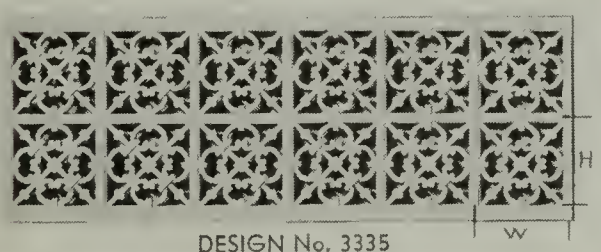
DESIGN No. 395
Unit 3 1/4" High x 3 1/4" Wide—F.A.O. 44%



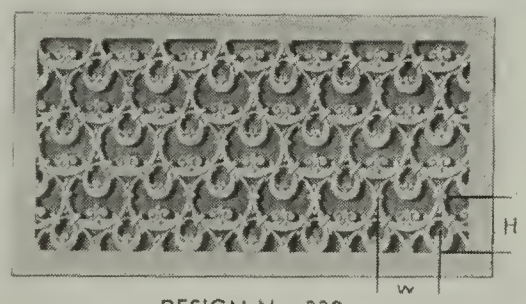
DESIGN No. 3121
Unit 2 1/2" High x 2 1/2" Wide—F.A.O. 46%



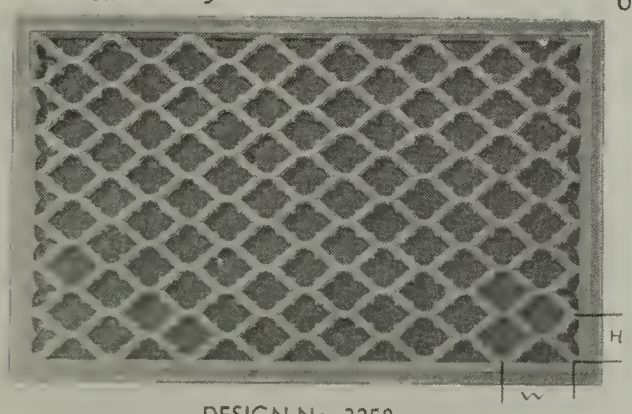
DESIGN No. 3371
Unit of Field 4" High x 4" Wide—F.A.O. 46%



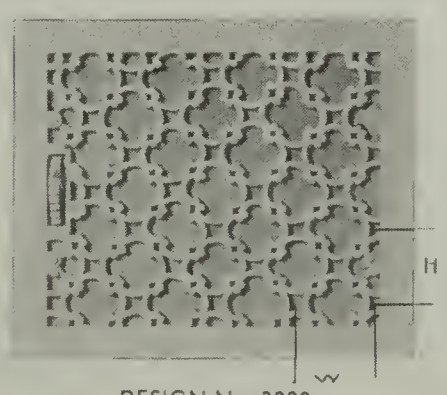
DESIGN No. 3335
Unit 5" High x 5" Wide—F.A.O. 50%



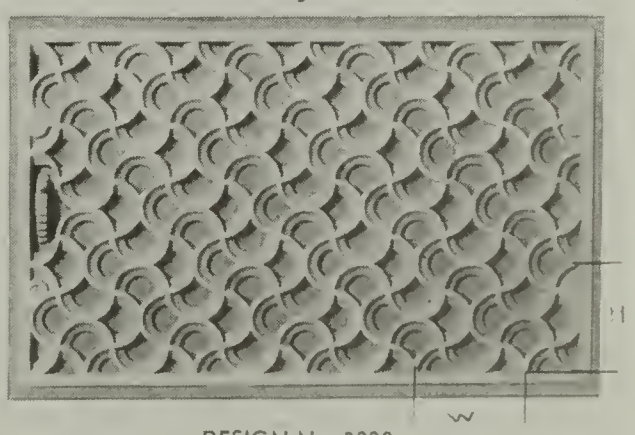
DESIGN No. 339
Unit 2 3/4" High x 3 1/4" Wide—F.A.O. 50%



DESIGN No. 3258
Unit 2 3/8" High x 3 5/8" Wide—F.A.O. 50%

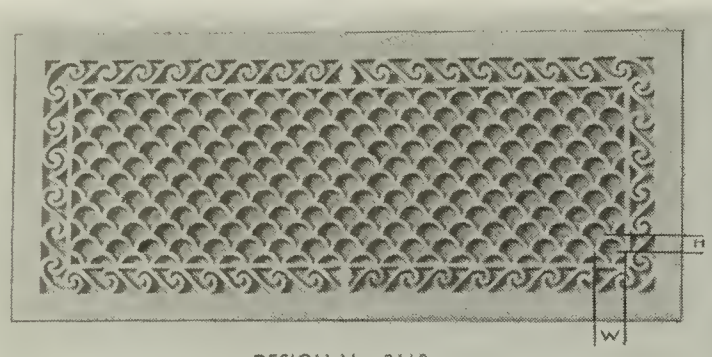


DESIGN No. 3222
Unit 3" High x 3" Wide—F.A.O. 58%

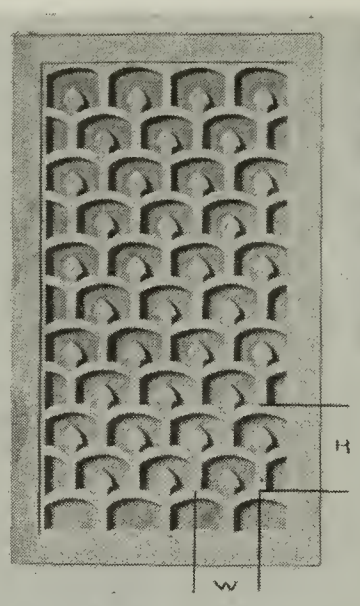


DESIGN No. 3220
Unit 3 1/2" High x 3 1/2" Wide—F.A.O. 42%

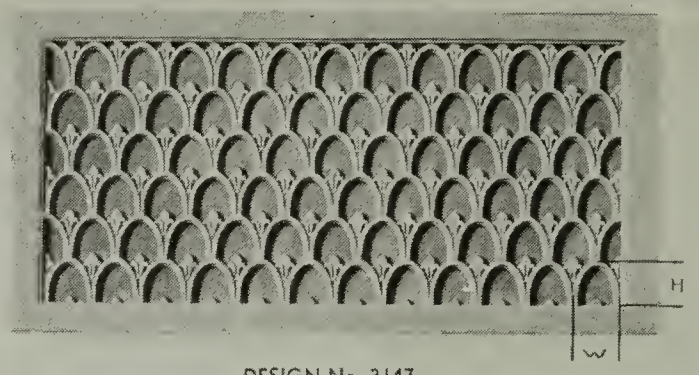
Grilles Cast Special Design



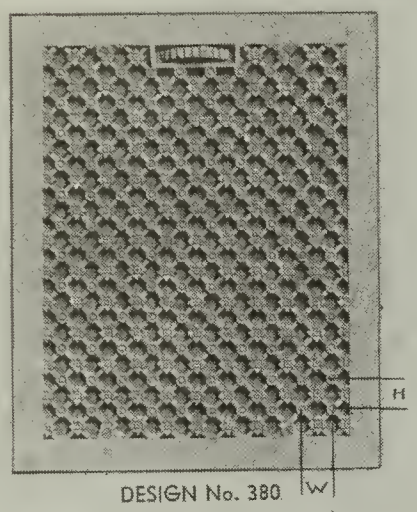
DESIGN No. 3118
Unit 1 5/8" High x 1 9/16" Wide—F.A.O. 55%



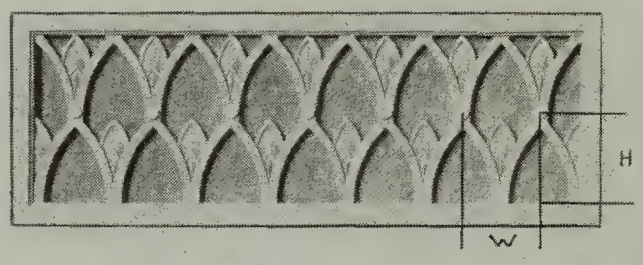
DESIGN No. 3304
Unit 3 1/2" High x 2 3/4" Wide
F.A.O. 65%



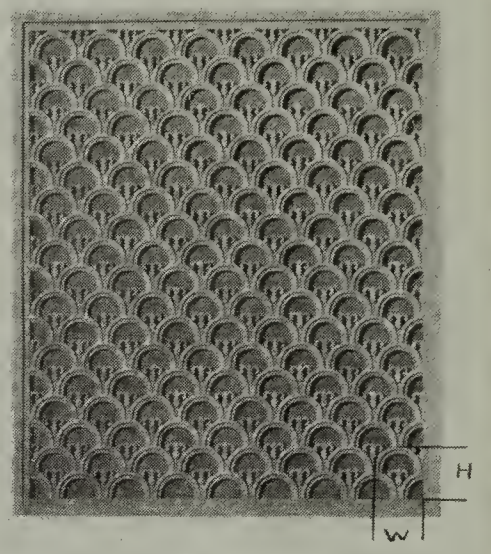
DESIGN No. 3147
Unit 2 3/16" High x 2 3/8" Wide—F.A.O. 57%



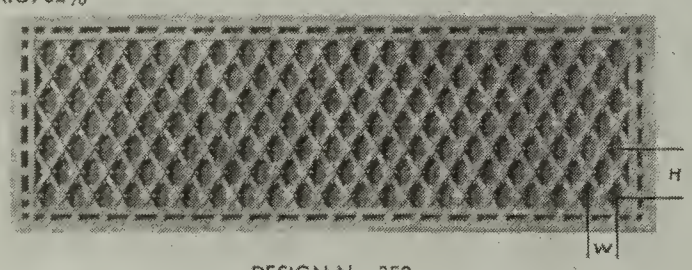
DESIGN No. 380
Unit 1 1/2" High x 1 1/2" Wide
F.A.O. 62%



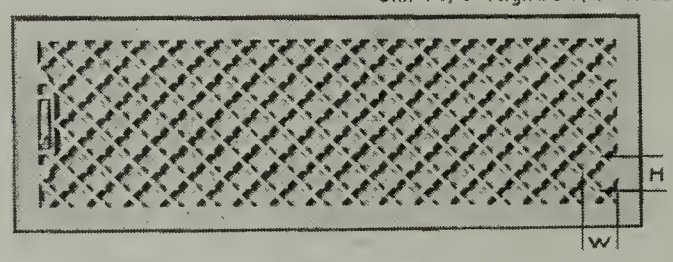
DESIGN No. 3110
Unit Size 4 1/4" High x 3 7/8" Wide—F.A.O. 74%



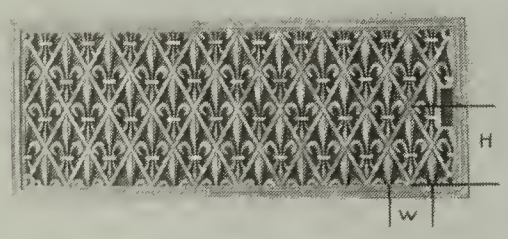
DESIGN No. 350
Unit 4 1/4" High x 3 7/8" Wide—F.A.O. 52%



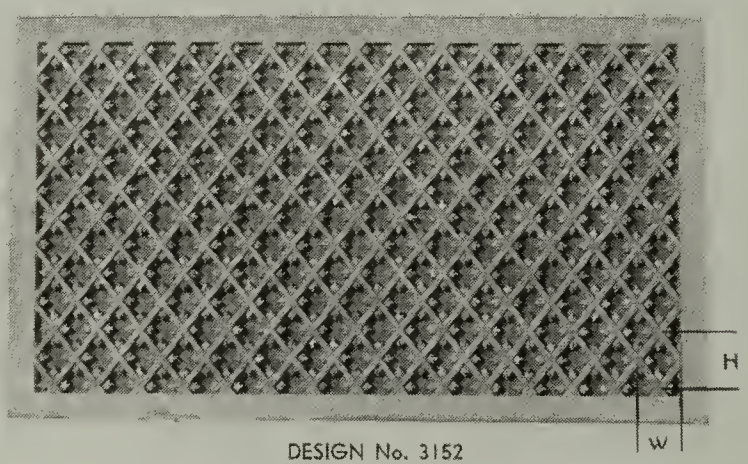
DESIGN No. 359
Unit 2 3/8" High x 1 3/8" Wide—F.A.O. 64%



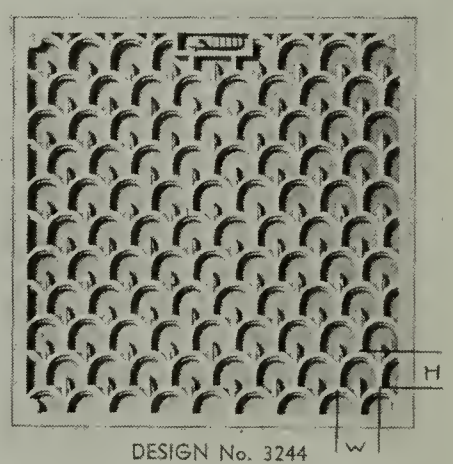
DESIGN No. 378
Unit 1 13/16" High x 1 13/16" Wide—F.A.O. 65%



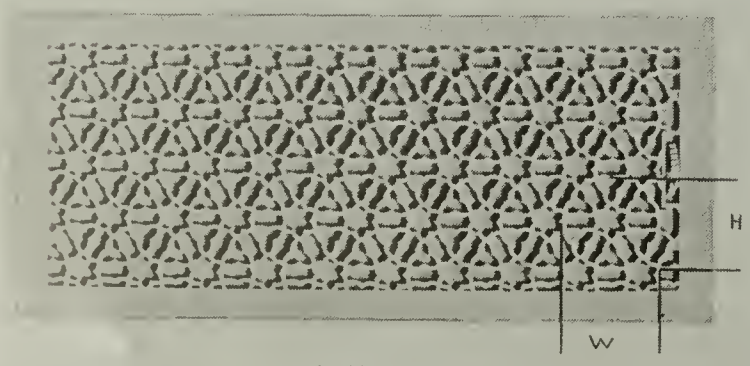
DESIGN No. 3193
Unit 4 7/8" High x 2 7/16" Wide—F.A.O. 41%



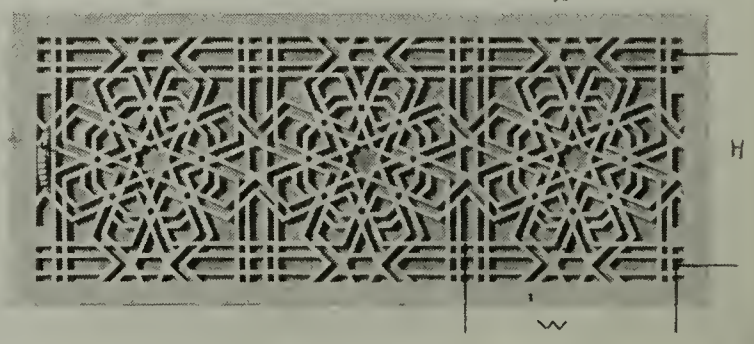
DESIGN No. 3152
Unit 2 3/16" High x 1 3/4" Wide— F.A.O. 40%



DESIGN No. 3244
Unit 1 7/8" High x 2 3/16" Wide
F.A.O. 64%

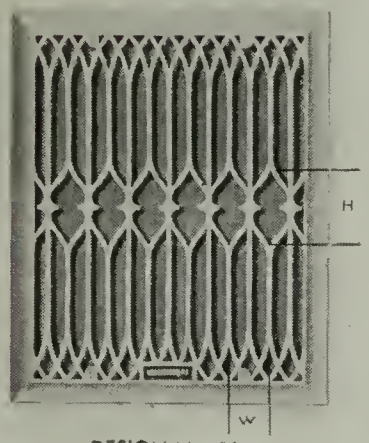


DESIGN No. 310
Unit 5" High x 5" Wide—F.A.O. 55 %

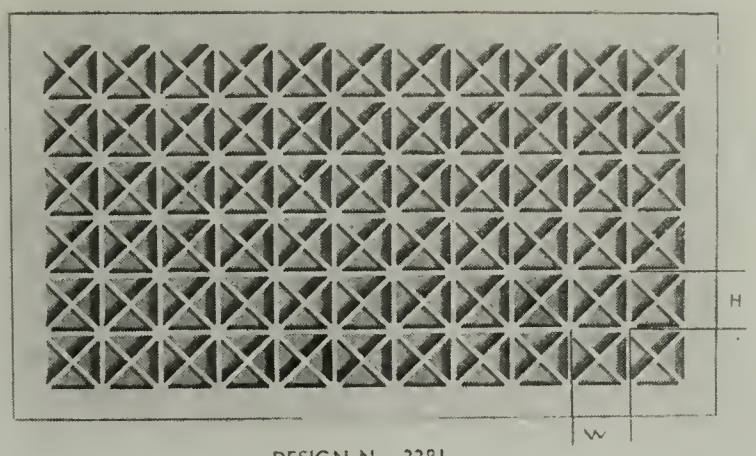


DESIGN No. 314
Unit 9 1/2" High x 9 1/2" WideF.A.O. 54%

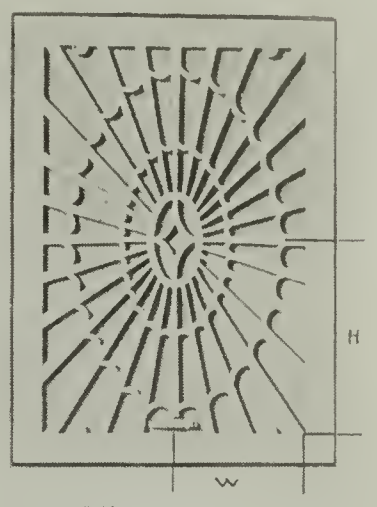
Grilles Cast Special Design



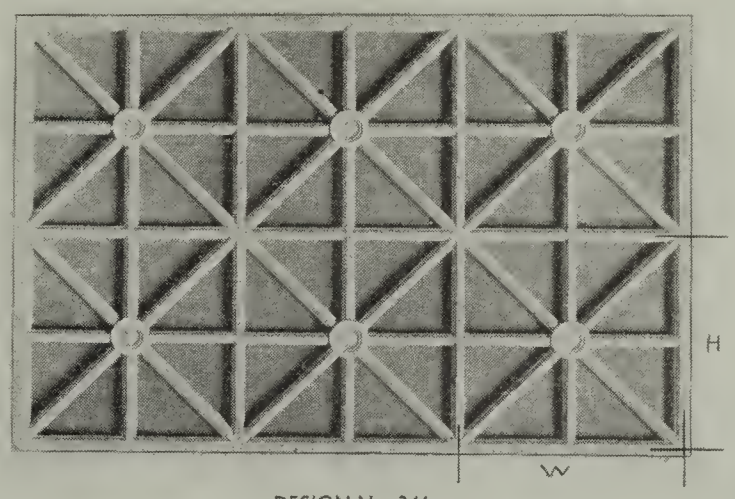
DESIGN No. 398
Unit 2 1/4" Wide x Specified Height
Center Section 4 1/4" High
F.A.O. 65%



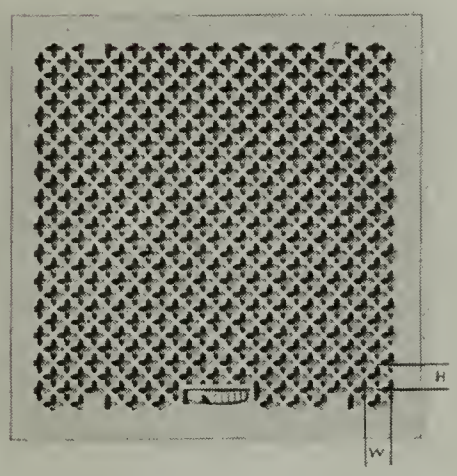
DESIGN No. 3381
Unit 4" High x 4" Wide—F.A.O. 72%



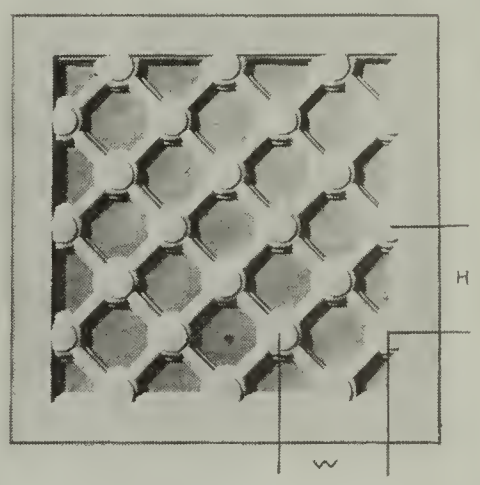
DESIGN No. 3113
Unit 8 3/4" High x 5 3/4" Wide
F.A.O. 51%



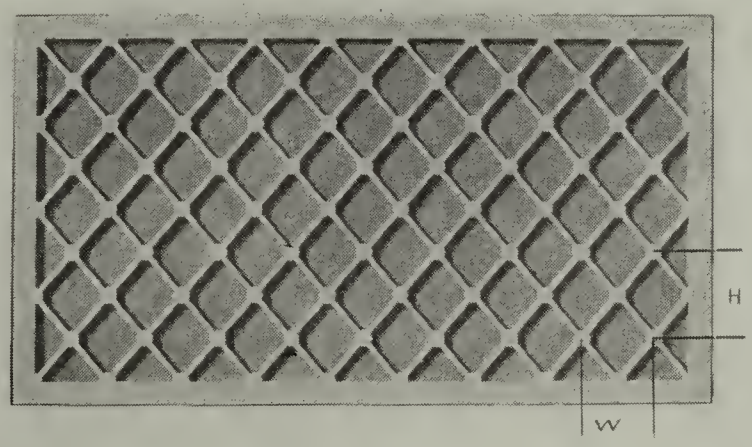
DESIGN No. 346
Unit 10 5/16" High x 9 1/8" Wide—F.A.O. 50%



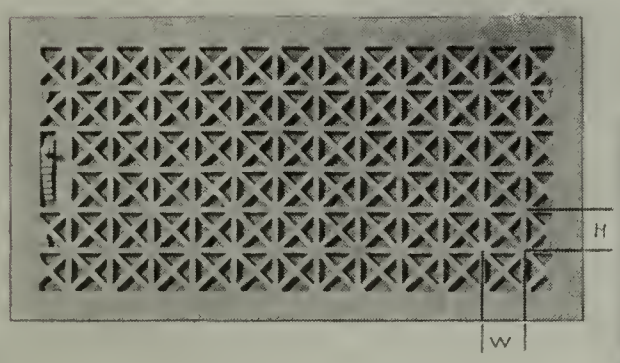
DESIGN No. 3266
Unit 1 5/16" High x 1 5/16" Wide
F.A.O. 51%



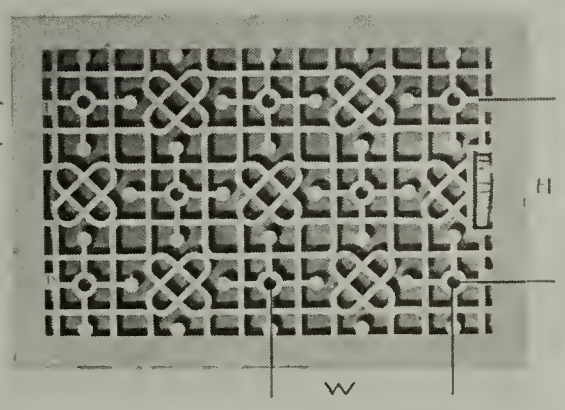
DESIGN No. 3331
Unit 6" High x 6" Wide—F.A.O. 63%



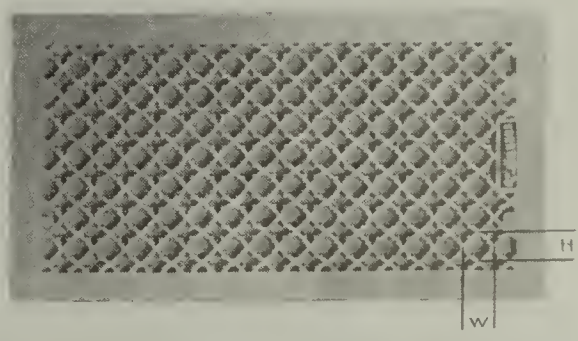
DESIGN No. 3306
Unit 4" High x 3" Wide—F.A.O. 75%



DESIGN No. 343 (No buttons)
DESIGN No. 342 (With buttons)
Unit 2" High x 2" Wide—F.A.O. 54%

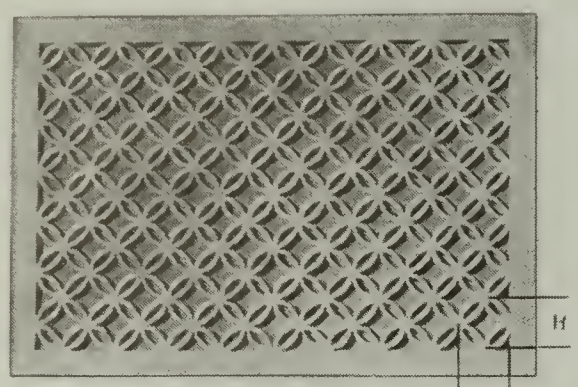


DESIGN No. 3103
Unit 6 5/8" High x 6 5/8" Wide—F.A.O. 52%

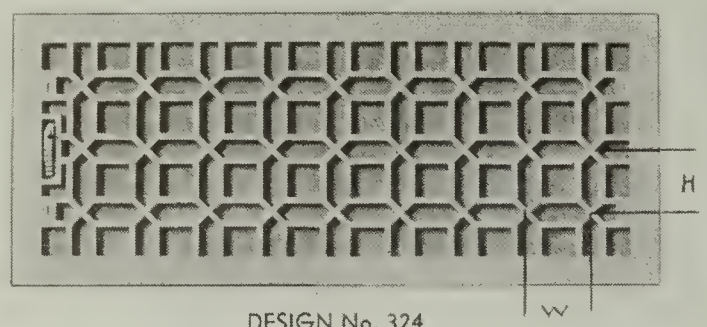


DESIGN No. 3111
Unit 2" High x 2 " Wide—F.A.O. 65%

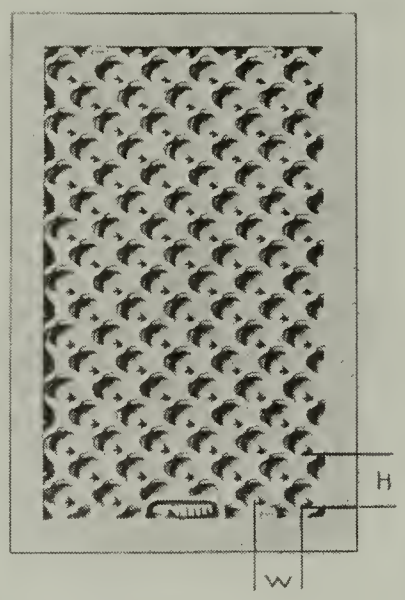
Grilles Cast Special Design



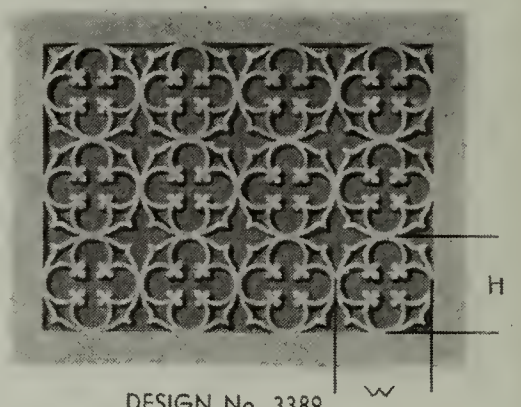
DESIGN No. 333
Unit 3" High x 3" Wide—F.A.O. 59%



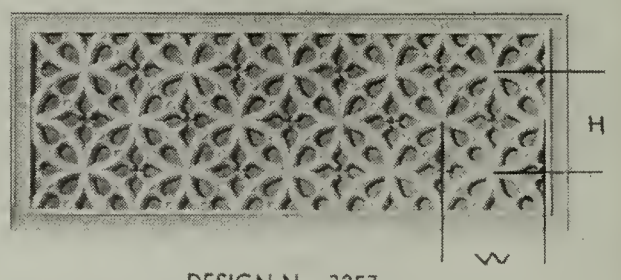
DESIGN No. 324
Unit 2 1/2" High x 2 1/2" Wide—F.A.O. 72%



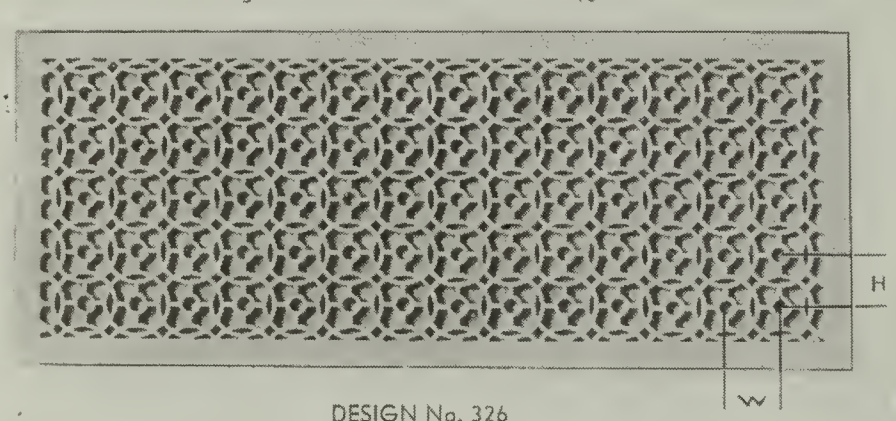
DESIGN No. 330
Unit 2 1/2" High x 2" Wide
F.A.O. 40%



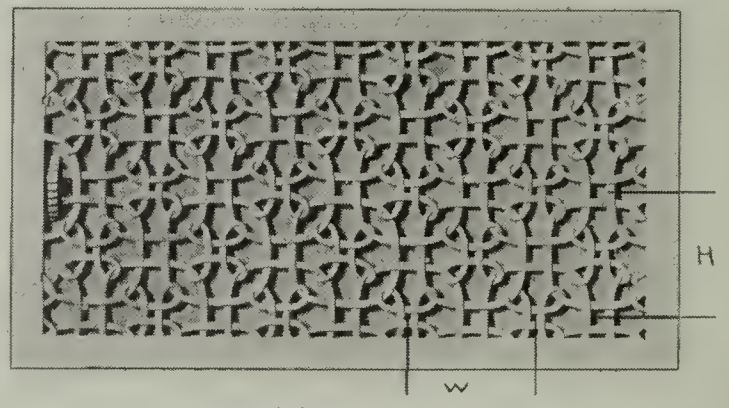
DESIGN No. 3389
Unit 6" High x 6" Wide—F.A.O. 65%



DESIGN No. 3257
Unit 5 5/8" High x 5 5/8" Wide—F.A.O. 45%



DESIGN No. 326
Unit 2 1/4" High x 2 1/4" Wide—F.A.O 50%



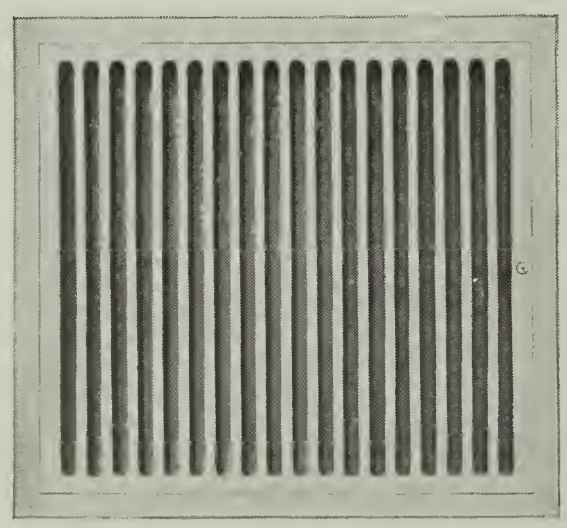
DESIGN No. 3163
Unit 4" High x 4" Wide—F.A.O. 55%

Sanitary Grilles
FOR HOSPITAL USE

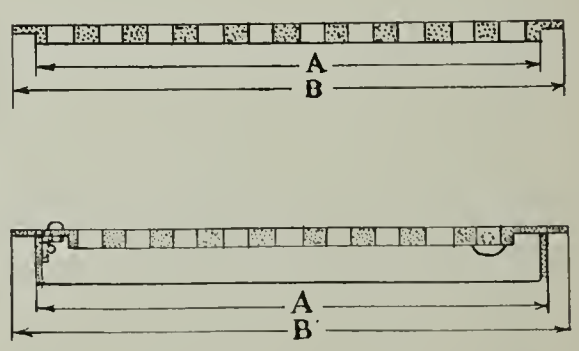
The Sanitary Design is especially recommended for use in Hospitals and Sanitariums where extreme cleanliness is demanded.

There are no square corners to catch the dirt and dust and the smooth surface makes cleaning an easy task.

The illustration shown at the right is the Sanitary Grille hinged to an angle frame. The same design may be obtained in the Sanitary type (see line cut at the right of page) and also in the standard register with the Face made in the Sanitary Design.



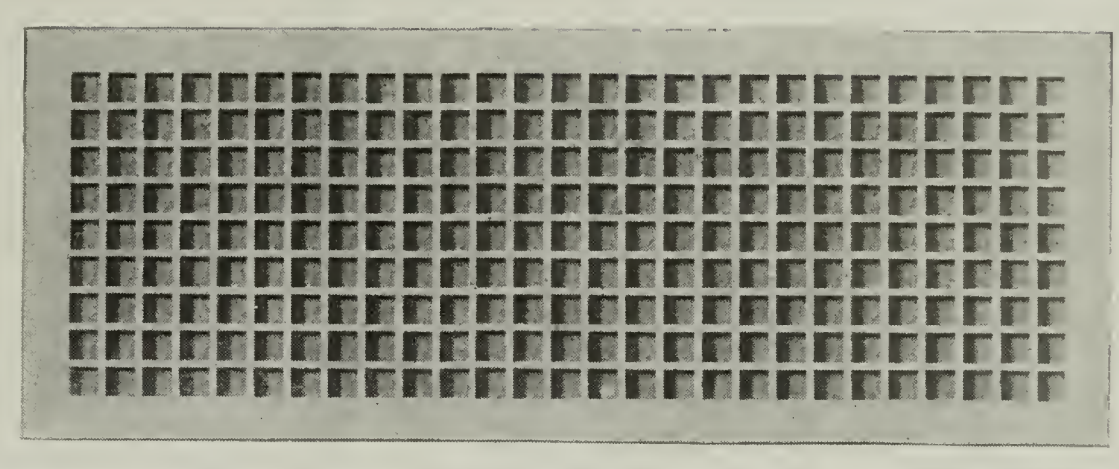
⅜" Bar, ¾" Opening bet. bars
F.A.O. 63%

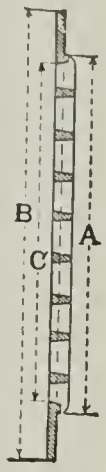


Grilles Cast Plain Lattice Design

DESIGN 31

Plain Lattice (mesh from ¾ to ⅞ inch approx.) Cast R. & G. Iron. Cast Bronze or Cast Brass if required.





DESIGN 31 is made in the standard sizes listed below. They should be used where possible. Special sizes mean additional cost and delay for pattern work.

SIZE OF OPENING A	Approximate Extreme Size B	SIZE OF OPENING A	Approximate Extreme Size B	SIZE OF OPENING A	Approximate Extreme Size B	SIZE OF OPENING A	Approximate Extreme Size B	SIZE OF OPENING A	Approximate Extreme Size B
4 x 6	5¼ x 7¼	7 x 14	8 1/16 x 15 5/8	11 x 17	13 x 18 5/16	16 x 16	18 5/16 x 18 5/16	24 x 24	26 3/8 x 26 3/8
4 x 8	5¼ x 9¼	7 x 15	8 1/16 x 16 5/8	11 x 18	13 x 19 5/16	16 x 18	18 5/16 x 20 5/16	24 x 26	26 3/8 x 28 3/8
4 x 10	5¼ x 11¼			11 x 20	13 x 21 5/16	16 x 20	18 5/16 x 22 5/16	24 x 27	26 3/8 x 29 3/8
4 x 12	5¼ x 13¼	8 x 8	9¾ x 9¾			16 x 22	18 5/16 x 24 5/16	24 x 30	26 3/8 x 32 3/8
4 x 13	5¼ x 14¼	8 x 10	9¾ x 11¾	12 x 12	14 1/16 x 14 1/16	16 x 24	18 5/16 x 26 5/16	24 x 32	26 3/8 x 34 3/8
4 x 15	5¼ x 16 3/16	8 x 12	9¾ x 13¾	12 x 14	14 1/16 x 16 1/16	16 x 28	18 5/16 x 30 5/16	24 x 36	26 3/8 x 38 3/8
4 x 18	5¼ x 19¼	8 x 13	9¾ x 14 1/16	12 x 15	14 1/16 x 17	16 x 30	18 5/16 x 32 5/16	24 x 40	26 3/8 x 42 3/8
4 x 21	5¼ x 22 3/16	8 x 14	9¾ x 15 1/16	12 x 16	14 1/16 x 18	16 x 32	18 5/16 x 34 5/16	24 x 42	26 3/8 x 44 3/8
4 x 24	5¼ x 25¼	8 x 15	9¾ x 16 1/16	12 x 17	14 1/16 x 19	16 x 36	18 5/16 x 38 5/16	24 x 45	26 3/8 x 47 3/8
		8 x 16	9¾ x 17 1/16	12 x 18	14 1/16 x 20				
5 x 8	6 5/16 x 9 5/16	8 x 18	9¾ x 19¾	12 x 19	14 1/16 x 21	18 x 18	20 5/16 x 20 5/16	26 x 26	28 3/8 x 28 3/8
5 x 9	6 5/16 x 10 5/16	8 x 20	9¾ x 21¾	12 x 20	14 1/16 x 22	18 x 20	20 5/16 x 22 5/16	26 x 28	28 3/8 x 30 3/8
5 x 10	6 5/16 x 11 5/16	8 x 21	9¾ x 22¾	12 x 22	14 1/16 x 24	18 x 21	20 5/16 x 23 5/16	26 x 30	28 3/8 x 32 3/8
5 x 11	6 5/16 x 12 5/16	8 x 24	9¾ x 25¾	12 x 24	14 1/16 x 26	18 x 22	20 5/16 x 24 5/16	26 x 32	28 3/8 x 34 3/8
5 x 12	6 5/16 x 13 5/16	8 x 27	9¾ x 28 1/16	12 x 26	14 1/16 x 28	18 x 24	20 5/16 x 26 5/16	26 x 34	28 3/8 x 36 3/8
5 x 13	6 5/16 x 14 5/16	8 x 30	9¾ x 31 1/16	12 x 28	14 1/16 x 30	18 x 27	20 5/16 x 29 5/16	26 x 36	28 3/8 x 38 3/8
5 x 14	6 5/16 x 15 5/16			12 x 30	14 1/16 x 32	18 x 28	20 5/16 x 30 5/16		
5 x 15	6 5/16 x 16 5/16	9 x 9	10 7/8 x 10 7/8	12 x 32	14 1/16 x 34	18 x 30	20 5/16 x 32 1/4	27 x 27	29 3/8 x 29 3/8
5 x 16	6 5/16 x 17 5/16	9 x 12	10 7/8 x 13 7/8	12 x 36	14 1/16 x 38	18 x 36	20 5/16 x 38 1/4	27 x 38	29 3/8 x 40 3/8
5 x 17	6 5/16 x 18 5/16	9 x 13	10 7/8 x 14 7/8						
5 x 18	6 5/16 x 19 5/16	9 x 14	10 7/8 x 15 7/8	14 x 14	16 1/4 x 16 1/4	20 x 20	22 3/8 x 22 3/8	28 x 28	30 3/8 x 30 3/8
		9 x 15	10 7/8 x 16 3/16	14 x 15	16 1/4 x 17 5/16	20 x 22	22 3/8 x 24 3/8	28 x 30	30 3/8 x 32 3/8
6 x 6	7 1/16 x 7 1/16	9 x 16	10 7/8 x 17 3/16	14 x 16	16 1/4 x 18 5/16	20 x 24	22 3/8 x 26 3/8	28 x 32	30 3/8 x 34 3/8
6 x 8	7 1/16 x 9 1/16	9 x 18	10 7/8 x 19 7/8	14 x 18	16 1/4 x 20 5/16	20 x 26	22 3/8 x 28 3/8	28 x 34	30 3/8 x 36 3/8
6 x 9	7 1/16 x 10 1/16	9 x 20	10 7/8 x 21 7/8	14 x 20	16 1/4 x 22 5/16	20 x 28	22 3/8 x 30 3/8	28 x 36	30 3/8 x 38 3/8
6 x 10	7 1/16 x 11 1/16	9 x 22	10 7/8 x 23 7/8	14 x 22	16 1/4 x 24 1/4	20 x 30	22 3/8 x 32 3/8	28 x 40	30 3/8 x 42 3/8
6 x 12	7 1/16 x 13 1/16	9 x 24	10 7/8 x 25 7/8	14 x 24	16 1/4 x 26 1/4	20 x 32	22 3/8 x 34 3/8		
6 x 14	7 1/16 x 15 1/16	9 x 26	10 7/8 x 27 7/8	14 x 28	16 1/4 x 30 5/16	20 x 36	22 3/8 x 38 3/8	30 x 30	32 3/8 x 32 3/8
6 x 16	7 1/16 x 17 1/16	9 x 28	10 7/8 x 29 3/16	14 x 30	16 1/4 x 32 5/16			30 x 32	32 3/8 x 34 3/8
6 x 18	7 1/16 x 19 1/16	9 x 30	10 7/8 x 31 3/16	14 x 36	16 1/4 x 38 5/16	21 x 21	23 3/8 x 23 3/8	30 x 34	32 3/8 x 36 3/8
6 x 20	7 1/16 x 21 1/16					21 x 25	23 3/8 x 27 3/8	30 x 36	32 3/8 x 38 3/8
6 x 22	7 1/16 x 23 1/16	10 x 10	11 5/16 x 11 5/16	15 x 15	17 1/4 x 17 1/4	21 x 29	23 3/8 x 31 3/8	30 x 40	32 3/8 x 42 3/8
6 x 24	7 1/16 x 25 1/16	10 x 12	11 5/16 x 13 5/16	15 x 21	17 1/4 x 23 1/4			30 x 42	32 3/8 x 44 3/8
6 x 28	7 1/16 x 29 5/8	10 x 14	11 5/16 x 15 5/16	15 x 25	17 1/4 x 27 1/4	22 x 22	24 3/8 x 24 3/8	30 x 48	32 3/8 x 50 3/8
6 x 30	7 1/16 x 31 5/8	10 x 15	11 5/16 x 16 5/16	15 x 30	17 1/4 x 32 1/4	22 x 24	24 3/8 x 26 3/8		
		10 x 16	11 5/16 x 17 7/8	15 x 34	17 1/4 x 36 1/4	22 x 26	24 3/8 x 28 3/8	36 x 36	38 3/8 x 38 3/8
7 x 7	8 1/16 x 8 1/16	10 x 18	11 5/16 x 19 7/8	15 x 36	17 1/4 x 38 1/4	22 x 28	24 3/8 x 30 3/8	36 x 40	38 3/8 x 42 3/8
7 x 9	8 1/16 x 10 1/16	10 x 20	11 5/16 x 21 7/8	----------	----------	22 x 30	24 3/8 x 32 3/8	36 x 42	38 3/8 x 44 3/8
7 x 10	8 1/16 x 11 1/16	10 x 22	11 5/16 x 23 7/8	----------	----------	22 x 32	24 3/8 x 34 3/8	36 x 48	38 3/8 x 50 3/8
7 x 12	8 1/16 x 13 1/16	10 x 24	11 5/16 x 25 7/8	----------	----------	22 x 36	24 3/8 x 38 3/8		
----------	----------	10 x 30	11 5/16 x 31 7/8	----------	----------	22 x 38	24 3/8 x 40 3/8	38 x 38	40 3/8 x 40 3/8
----------	----------	10 x 36	11 5/16 x 37 7/8	----------	----------	22 x 40	24 3/8 x 42 3/8	38 x 40	40 3/8 x 42 3/8
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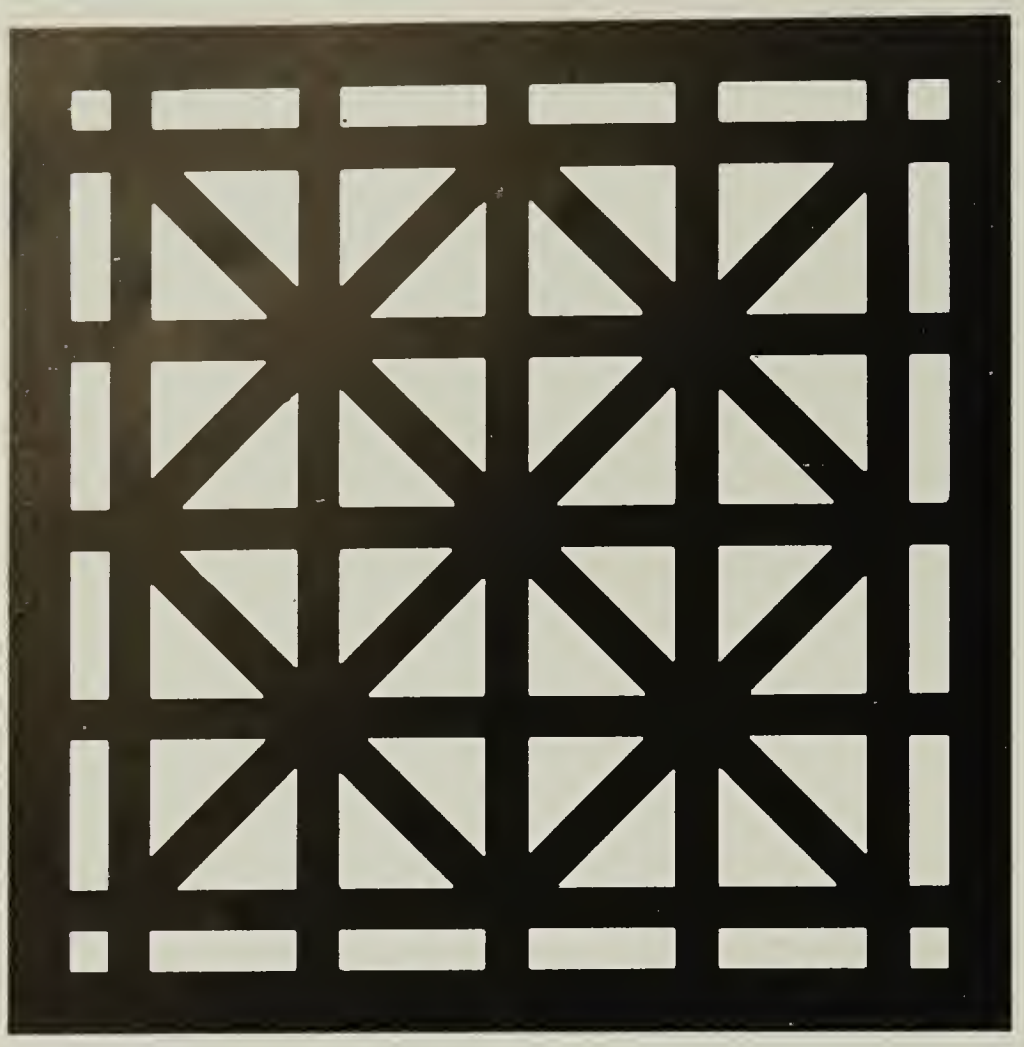


Design No. 3040A

R. & G. GRILLE SPECIALTIES

Radio Grilles for Loud Speakers

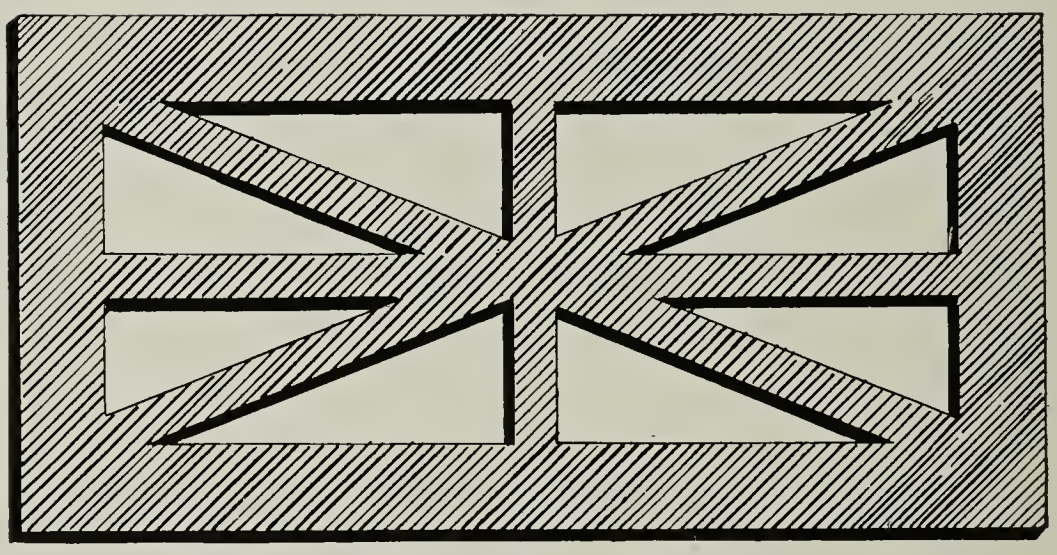
With the growing popularity of room Radios, Register & Grille offer a grille specially designed for this purpose. Made in either stamped steel, Sheet Bronze or Sheet Aluminum it presents a pleasing appearance at moderate cost. Standard specifications are No. 10 Gauge, Stamped Steel, finish either Prime Coat for painting or Rango Finish to match the room decorations.

Size: Made in one size only, 24½ x 24½ overall. The extreme dimensions can be varied slightly to meet conditions.

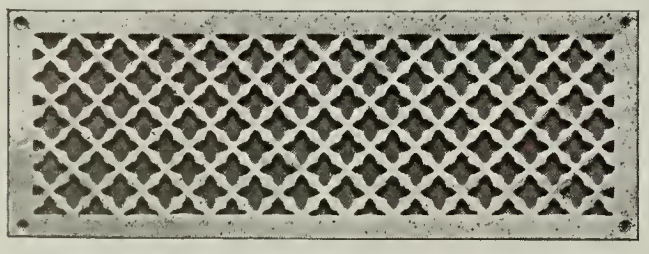
Store Front Grilles

The use of Grilles under store front windows is becoming increasingly necessary. Because of weather conditions they should be made of non-ferrous metal. We recommend our Design No. 3500 (shown at right). It is made from a standard pattern. Large quantities are cast at a time thus bringing the cost within the reach of all. MADE ONLY IN CAST BRONZE.

Other designs are also available in either Cast Bronze or Stamped Bronze or Aluminum.

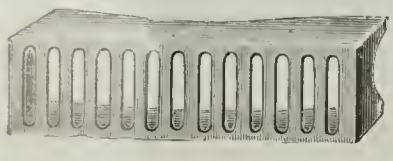


Design No. 3500 Solid Cast Bronze Size 18″ x 9″ over all. Front of rim 1 5/16″ wide. Back of rim 1 1/16″ wide.



Ventilating Plates—Design 3V

This design is Mouse Proof and is made in small sizes in either round or rectangular shape. Sizes and prices on request.



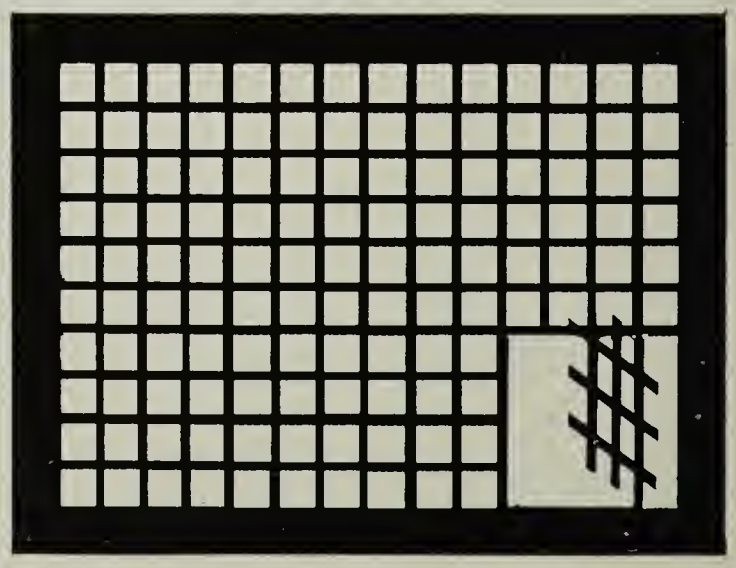
Brick Ventilator

Made in one size only. Brick size 2¼ x 8 in.

Hand Hole Doors for Access to Valves

Always designate height and width of grille and location of the door.

At right, Plain Lattice Stamped Steel Grille with Hand Hole Door showing pivot hinge, which when closed becomes practically invisible.



DESCRIPTION OF STAMPED DESIGNS

Design No.	*Page No.*	*o/o of Free Area*	*Size of Mesh Opening*	*Size of Bar*	*Size of Special Unit*	*Name of Design*
301	26	66	13/16	3/16	——	Plain Lattice
301-A	26	56	3/4	1/4	——	Plain Lattice
301-B	26	64	3/4	3/16	——	Plain Lattice
301-C	26	45	3/4	3/8	——	Plain Lattice
301-D	26	58	13/16	1/4	——	Plain Lattice
301-E	26	67	7/8	3/16	——	Plain Lattice
301-H	26	60	7/8	1/4	——	Plain Lattice
301-K	26	49	7/8	3/8	——	Plain Lattice
302-A	26	53	1/2	3/16	——	Plain Lattice
302-B	26	33	1/4	3/16	——	Plain Lattice
302-C	26	40	3/8	7/32	——	Plain Lattice
302-D	26	45	5/16	5/32	——	Plain Lattice
302-E	26	45	1/2	1/4	——	Plain Lattice
302-H	26	55	5/8	7/32	——	Plain Lattice
302-K	26	39	5/8	3/8	——	Plain Lattice
302-L	26	59	5/8	3/16	——	Plain Lattice
303-A	28	55	5/8	7/32	——	Diag. Lattice
303-B	28	51	5/8	1/4	——	Diag. Lattice
303-C	28	53	1/2	3/16	——	Diag. Lattice
303-D	28	56	3/4	1/4	——	Diag. Lattice
303-E	28	49	3/4	1/2	——	Diag. Lattice
304-A	28	47	3	3/8	——	Grecian
304-B	28	48	4	1/2	——	Grecian
304-C	28	46	2 1/2	3/8	——	Grecian
304-D	28	39	1 1/4	3/16	——	Grecian
304-E	28	52	3 1/2	5/16	——	Grecian
304-H	28	40	8 1/4	—	——	Grecian
309-A	33	50	—	—	13/64 x 1 1/2	Horiz. Slot
3012-A	29	52	—	—	2 7/8	Circle
3012-B	29	55	—	—	2	Circle
3014-A	32	60	—	—	1 7/16 x 2 7/16	Split Scale
3014-B	32	65	—	—	2 x 2 3/4	Split Scale
3016-A	33	50	—	—	5/8 x 1	Scale
3016-B	33	72	—	—	1 7/16 x 2	Scale
3016-C	33	56	—	—	7/8 x 1 1/4	Scale
3016-D	33	75	—	—	2 3/8 x 2 1/2	Scale
3018-A	29	66	—	—	2 1/8 x 2	Gothic
3020-A	28	51	2 3/4	3/8	——	Maltese Cross
3022-A	29	60	2 7/16	5/16	——	Modern
3026-A	32	64	—	—	1 x 1 5/32	Hexagon
3028-A	28	67	—	—	7/8 x 1 1/2	Diamond
3028-B	28	50	—	—	9/16 x 1	Diamond
3030-A	26	64	1	1/4	——	Plain Lattice
3030-B	26	53	1	3/8	——	Plain Lattice
3030-C	26	67	1 1/8	1/4	——	Plain Lattice
3030-D	26	56	1 1/8	3/8	——	Plain Lattice
3030-E	26	69	1 1/4	1/4	——	Plain Lattice
3030-H	26	59	1 1/4	3/8	——	Plain Lattice
3032-A	31	47	—	—	2 1/4 x 2 1/4	Modern
3034-A	29	21	—	—	Special	Louvre
3036-A	26	72	1 3/8	1/4	——	Plain Lattice
3036-B	26	63	1 3/8	3/8	——	Plain Lattice
3036-C	26	74	1 1/2	1/4	——	Plain Lattice
3038-A	26	77	1 3/4	1/4	——	Plain Lattice
3038-B	26	79	2	1/4	——	Plain Lattice
3038-C	26	91	2 1/2	1/8	——	Plain Lattice
3038-D	26	83	2 1/2	1/4	——	Plain Lattice
3040-A	22	38	—	—	Special	Radio
3046-A	27	59	—	—	4 5/8 x 5 1/8	Post Office
3048-A	27	58	—	—	7/16 x 1 3/4	Weave
3050-A	27	59	—	—	2 x 2	Square Link
3096-A	30	51	—	—	2 x 2	Modern
3510-C	33	70	—	—	{5/8 x Adjustable {4 5/8 — 19 5/8	{Sanitary Slot {Single Unit
3510-A	33	51	—	—	3/4 x 2 3/4	Slot square Top and Bottom
3510-D	33	50			3/4 x 2 1/2	Slot square Top and Bottom
3510-E	33	50	—	—	5/8 x 1 7/8	Slot square Top and Bottom
3510-H	33	57	—	—	1/2 x 1 7/8	Slot rounded Top and Bottom
3510-J	33	50	—	—	3/4 x 2	Slot rounded Top and Bottom
3510-K	33	52	—	—	3/4 x 2 7/8	Slot rounded Top and Bottom
3611-A	27	56	—	—	1 3/4 x 2 11/16	Modern
3623-A	30	57	—	—	2 3/4 x 4 3/4	Modern
3624-A	30	50	—	—	2 3/4 x 4 3/4	Modern
3864-A	31	46	—	—	1 9/16 x 1 3/4	Modern
3865-A	32	57	—	—	2 1/2 x 4 5/16	Modern
3866-A	31	50	—	—	1 3/4 x 1 17/32	Modern

STAMPED GRILLES

SPECIFICATIONS – TABLE OF HOLES

SHOWING DAYLIGHT OPENING DIMENSIONS

NUMBER OF HOLES			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
DESIGN NUMBER	Mesh Size	Width of Bar																				
301	1/16	3/16	1/16	1 1/16	2 1/16	3 1/16	4 1/16	5 1/16	6 1/16	7 1/16	8 1/16	9 1/16	10 1/16	11 1/16	12 1/16	13 1/16	14 1/16	15 1/16	16 1/16	17 1/16	18 1/16	19 1/16
302-A	1/2	3/16		1 3/16	1 7/8	2 9/16	3 1/4	3 5/8	4 5/8	5 5/16	6	6 1/16	7 3/8	8 1/16	8 3/4	9 7/16	10 1/8	10 3/16	11 1/2	12 3/16	12 7/8	13 9/16
302-H	5/8	7/32		1 5/32	2 5/16	3 5/32	4	4 27/32	5 11/16	6 17/32	7 3/8	8 7/32	9 1/16	9 29/32	10 3/4	11 19/32	12 7/16	13 9/32	14 1/8	14 31/32	15 13/16	16 21/32
301 A	3/4	1/4		1 3/4	2 3/4	3 3/4	4 3/4	5 3/4	6 3/4	7 3/4	8 3/4	9 3/4	10 3/4	11 3/4	12 3/4	13 3/4	14 3/4	15 3/4	16 3/4	17 3/4	18 3/4	19 3/4
301-E	7/8	3/16		1 5/16	3	4 1/16	5 1/8	6 3/16	7 1/4	8 5/16	9 3/8	10 7/16	11 1/2	12 9/16	13 5/8	14 11/16	15 3/4	16 13/16	17 7/8	18 15/16	20	21 1/16
301-H	7/8	1/4		2	3 1/8	4 1/4	5 3/8	6 1/2	7 5/8	8 3/4	9 7/8	11	12 1/8	13 1/4	14 3/8	15 1/2	16 5/8	17 3/4	18 7/8	20	21 1/8	22 1/4
3030-A	1	1/4		2 1/4	3 1/2	4 3/4	6	7 1/4	8 1/2	9 3/4	11	12 1/4	13 1/2	14 3/4	16	17 1/4	18 1/2	19 3/4	21	22 1/4	23 1/2	24 3/4
3030-C	1 1/8	1/4		2 1/2	3 7/8	5 1/4	6 5/8	8	9 3/8	10 3/4	12 1/8	13 1/2	14 7/8	16 1/4	17 5/8	19	20 3/8	21 3/4	23 1/8	24 1/2	25 7/8	27 1/4
3030-E	1 1/4	1/4		2 3/4	4 1/4	5 3/4	7 1/4	8 3/4	10 1/4	11 3/4	13 1/4	14 3/4	16 1/4	17 3/4	19 1/4	20 3/4	22 1/4	23 3/4	25 1/4	26 3/4	28 1/4	29 3/4
3036-A	1 3/8	1/4		3	4 5/8	6 1/4	7 7/8	9 1/2	11 1/8	12 3/4	14 3/8	16	17 5/8	19 1/4	20 7/8	22 1/2	24 1/8	25 3/4	27 3/8	29	30 5/8	32 1/4
3038-A	1 3/4	1/4		3 3/4	5 3/4	7 3/4	9 3/4	11 3/4	13 3/4	15 3/4	17 3/4	19 3/4	21 3/4	23 3/4	25 3/4	27 3/4	29 3/4	31 3/4	33 3/4	35 3/4	37 3/4	39 3/4
303-C	1/2	3/16		1 13/64	2 21/32	3 5/8	4 29/32	5 15/16	6 55/64	7 33/64	8 31/64	9 29/64	10 7/16	11 13/32	12 3/8	13 11/32	14 21/64	15 19/64	16 17/64	17 15/64	18 7/32	19 3/16
303-D	3/4	1/4		2 15/32	3 57/64	5 19/64	6 23/32	8 1/8	9 35/64	10 61/64	12 3/8	13 25/32	15 13/64	16 39/64	18 1/32	16 7/16	20 55/64	22 17/64	23 11/16	25 3/32	26 33/64	27 59/64
304-A	3			6 3/8	9 3/4	13 1/8	16 1/2	19 7/8	23 1/4	26 5/8	30	33 3/8	36 3/4	40 1/8	43 1/2	46 7/8	50 1/4	53 5/8	57	60 3/8	63 3/4	67 1/8
304-B	4		4	8 1/2	13	17 1/2	22	26 1/2	31	35 1/2	40	44 1/2	49	53 1/2	58	62 1/2	67	71 1/2	76	80 1/2	85	89 1/2
304-C	2 1/2		2 1/2	5 3/8	8 1/4	11 1/8	14	16 7/8	19 3/4	22 5/8	25 1/2	28 3/8	31 1/4	34 1/8	37	39 7/8	42 3/4	45 5/8	48 1/2	51 3/8	54 1/4	57 1/8
304-D	1 1/4		1 1/4	2 1/16	4 1/8	5 3/16	7	8 7/16	9 7/8	11 5/16	12 3/4	14 3/16	15 5/8	17 1/16	18 1/2	19 5/16	21 3/8	22 3/16	24 1/4	25 1/16	27 1/8	28 9/16
3012-A			2 7/8	6 1/8	9 3/8	12 5/8	15 7/8	19 1/8	22 3/8	25 5/8	28 7/8	32 1/8	35 3/8	38 5/8	41 7/8	45 1/8	48 3/8	51 5/8	54 7/8	58 1/8	61 3/8	64 5/8
3012-B			2	4 1/4	6 1/2	8 3/4	11	13 1/4	15 1/2	17 3/4	20	22 1/4	24 1/2	26 3/4	29	31 1/4	33 1/2	35 3/4	38	40 1/4	42 1/2	44 3/4
3020-A			2 3/4	5 7/8	9	12 1/8	15 1/4	18 3/8	21 1/2	24 5/8	27 3/4	30 7/8	34	37 1/8	40 1/4	43 3/8	46 1/2	49 5/8	52 3/4	55 7/8	59	62 1/8
3022-A			2 7/16	5 3/16	7 15/16	10 11/16	13 7/16	16 3/16	18 15/16	21 11/16	24 7/16	27 3/16	29 15/16	32 11/16	35 7/16	38 3/16	40 15/16	43 11/16	46 7/16	49 3/16	51 15/16	54 11/16
3032-A			2 1/4	4 7/8	7 1/2	10 1/8	12 3/4	15 3/8	18	20 5/8	23 1/4	25 7/8	28 1/2	31 1/8	33 3/4	36 3/8	39	41 5/8	44 1/4	46 7/8	49 1/2	52 1/8
3096-A			2	4 5/16	6 5/8	8 15/16	11 1/4	13 9/16	15 7/8	18 3/16	20 1/2	22 13/16	25 1/8	27 7/16	29 3/4	32 1/16	34 3/8	36 11/16	39	41 5/16	43 5/8	45 15/16

SPECIFICATIONS – TABLE OF HOLES

(Continued)

NUMBER OF HOLES	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	For Each Additional Hole Add
DESIGN NUMBER																							
301	20 13/16	21 13/16	22 13/16	23 13/16	24 13/16	25 13/16	26 13/16	27 13/16	28 13/16	29 13/16	30 13/16	31 13/16	32 13/16	33 13/16	34 13/16	35 13/16	36 13/16	37 13/16	38 13/16	39 13/16	40 13/16	41 13/16	1
302A	14 1/4	14 15/16	15 5/8	16 5/16	17	17 11/16	18 3/8	19 1/16	19 3/4	20 7/16	21 1/8	21 13/16	22 1/2	23 3/16	23 7/8	24 9/16	25 1/4	25 15/16	26 5/8	27 5/16	28	28 11/16	1/16
302H	17 1/2	18 11/32	19 3/16	20 1/32	20 7/8	21 23/32	22 9/16	23 13/32	24 1/4	25 3/32	25 15/16	26 25/32	27 5/8	28 15/32	29 5/16	30 5/32	31	31 27/32	32 11/16	33 17/32	34 3/8	35 7/32	27/32
301A	20 3/4	21 3/4	22 3/4	23 3/4	24 3/4	25 3/4	26 3/4	27 3/4	28 3/4	29 3/4	30 3/4	31 3/4	32 3/4	33 3/4	34 3/4	35 3/4	36 3/4	37 3/4	38 3/4	39 3/4	40 3/4	41 3/4	1
301E	22 1/8	23 3/16	24 1/4	25 5/16	26 3/8	27 7/16	28 1/2	29 9/16	30 5/8	31 11/16	32 3/4	33 13/16	34 7/8	35 15/16	37	38 1/16	39 1/8	40 3/16	41 1/4	42 5/16	43 3/8	44 7/16	1 1/16
301H	23 3/8	24 1/2	25 5/8	26 3/4	27 7/8	29	30 1/8	31 1/4	32 3/8	33 1/2	34 5/8	35 3/4	36 7/8	38	39 1/8	40 1/4	41 3/8	42 1/2	43 5/8	44 3/4	45 7/8	47	1 1/8
3030A	26	27 1/4	28 1/2	29 3/4	31	32 1/4	33 1/2	34 3/4	36	37 1/4	38 1/2	39 3/4	41	42 1/4	43 1/2	44 3/4	46	47 1/4	48 1/2	49 3/4	51	52 1/4	1 1/4
3030C	28 5/8	30	31 3/8	32 3/4	34 1/8	35 1/2	36 7/8	38 1/4	39 5/8	41	42 3/8	43 3/4	45 1/8	46 1/2	47 7/8	49 1/4	50 5/8	52	53 3/8	54 3/4	56 1/8	57 1/2	1 3/8
3030E	31 1/4	32 3/4	34 1/4	35 3/4	37 1/4	38 3/4	40 1/4	41 3/4	43 1/4	44 3/4	46 1/4	47 3/4	49 1/4	50 3/4	52 1/4	53 3/4	55 1/4	56 3/4	58 1/4	59 3/4	61 1/4	62 3/4	1 1/2
3036A	33 7/8	35 1/2	37 1/8	38 3/4	40 3/8	42	43 5/8	45 1/4	46 7/8	48 1/2	50 1/8	51 3/4	53 3/8	55	56 5/8	58 1/4	59 7/8	61 1/2	63 1/8	64 3/4	66 3/8	68	1 5/8
3038A	41 3/4	43 3/4	45 3/4	47 3/4	49 3/4	51 3/4	53 3/4	55 3/4	57 3/4	59 3/4	61 3/4	63 3/4	65 3/4	67 3/4	69 3/4	71 3/4	73 3/4	75 3/4	77 3/4	79 3/4	81 3/4	83 3/4	2
303C	20 5/32	21 1/8	22 7/64	23 5/64	24 3/64	25 1/64	25 63/64	26 31/32	27 15/16	28 29/32	29 7/8	30 55/64	31 53/64	32 51/64	33 49/64	34 47/64	35 23/32	36 11/16	37 21/32	38 5/8	39 39/64	40 37/64	31/32
303D	29 11/32	30 3/4	32 11/64	33 37/64	35	36 13/32	37 53/64	39 15/64	40 21/32	42 1/16	43 31/64	44 57/64	46 5/16	47 23/32	49 9/64	50 9/16	51 31/32	53 3/8	54 51/64	56 7/32	57 5/8	59 1/32	1 13/32
304A	70 1/2	73 7/8	77 1/4	80 5/8	84	87 3/8	90 3/4	94 1/8	97 1/2	100 7/8	104 1/4	107 5/8	111	114 3/8	117 3/4	121 1/8	124 1/2	127 7/8	131 1/4	134 5/8	138	141 3/8	3 3/8
304B	94	98 1/2	103	107 1/2	112	116 1/2	121	125 1/2	130														4 1/2
304C	60	62 7/8	65 3/4	68 5/8	71 1/2	74 3/8	77 1/4	80 1/8	83	85 7/8	88 3/4	91 5/8	94 1/2	97 3/8	100 1/4	103 1/8	106	108 7/8	111 3/4	114 5/8	117 1/2	120 3/8	2 7/8
304D	30	31 7/16	32 7/8	34 5/16	35 3/4	37 3/16	38 5/8	40 1/16	41 1/2	42 15/16	44 3/8	45 13/16	47 1/4	48 11/16	50 1/8	51 9/16	53	54 7/16	55 7/8	57 5/16	58 3/4	60 3/16	1 7/16
3012A	67 7/8	71 1/8	74 3/8	77 5/8	80 7/8	84 1/8	87 3/8	90 5/8	93 7/8	97 1/8	100 3/8	103 5/8	106 7/8	110 1/8	113 3/8	116 5/8	119 7/8	123 1/8	126 3/8	129 5/8	132 7/8	136 1/8	3 1/4
3012B	47	49 1/4	51 1/2	53 3/4	56	58 1/4	60 1/2	62 3/4	65	67 1/4	69 1/2	71 3/4	74	76 1/4	78 1/2	80 3/4	83	85 1/4	87 1/2	89 3/4	92	94 1/4	2 1/4
3020A	65 1/4	68 3/8	71 1/2	74 5/8	77 3/4	80 7/8	84	87 1/8	90 1/4	93 3/8	96 1/2	99 5/8	102 3/4	105 7/8	109	112 1/8	115 1/4	118 3/8	121 1/2	124 5/8	127 3/4	130 7/8	3 1/8
3022A	57 7/16	60 3/16	62 15/16	65 11/16	68 7/16	71 3/16	73 15/16	76 11/16	79 7/16	82 3/16	84 15/16	87 11/16	90 7/16	93 3/16	95 15/16	98 11/16	101 7/16	104 3/16	106 15/16	109 11/16	112 7/16	115 3/16	2 3/4
3032A	54 3/4	57 3/8	60	62 5/8	65 1/4	67 7/8	70 1/2	73 1/8	75 3/4	78 3/8	81	83 5/8	86 1/4	88 7/8	91 1/2	94 1/8	96 3/4	99 3/8	102	104 5/8	107 1/4	109 7/8	2 5/8
3096A	48 1/4	50 9/16	52 7/8	55 3/16	57 1/2	59 13/16	62 1/8	64 7/16	66 3/4	69 1/16	71 3/8	73 11/16	76	78 5/16	80 5/8	82 15/16	85 1/4	87 9/16	89 7/8	92 3/16	94 1/2	96 13/16	2 5/16

REGISTER AND GRILLE MFG. CO. BROOKLYN, N. Y.

GRILLES STAMPED

R. & G. stamped Grilles offer the Architects, Engineers and Contractors, a wide choice in designs, both plain and architectural.

Stamped Grilles have certain advantages over the Cast type. They are lighter in weight, therefore especially adapted for wall or ceiling use. From an economical side they are perfect, as the unit dies offer a large scale of sizes without the necessary pattern changes of cast goods. They are easier to handle, both in shipping and in the installation, and are therefore popular with installers.

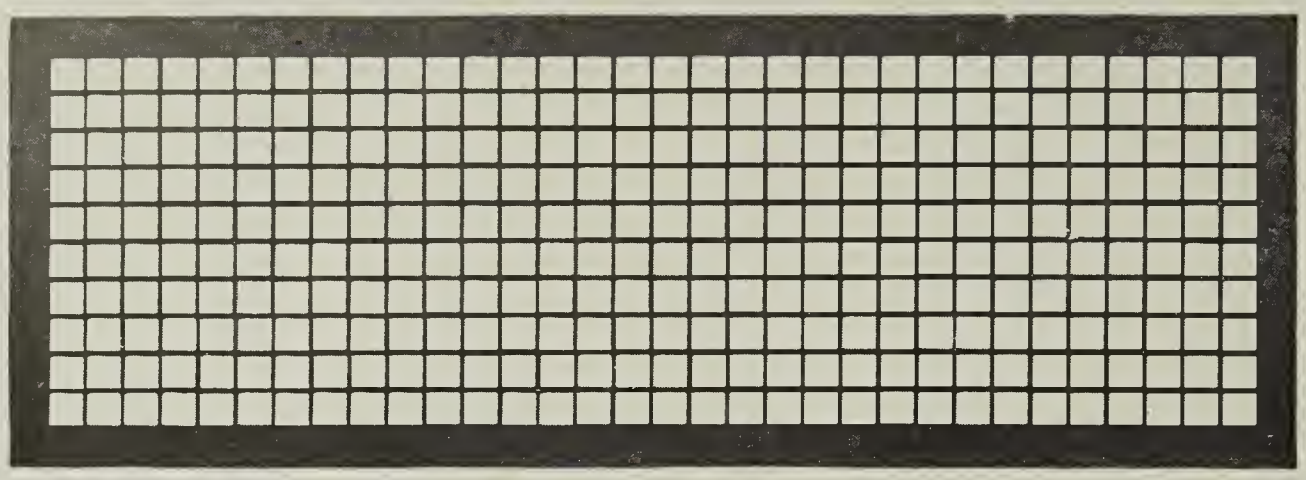
Most of our steel grilles are made of eold rolled steel in any gauge up to and including 1/4" thick.

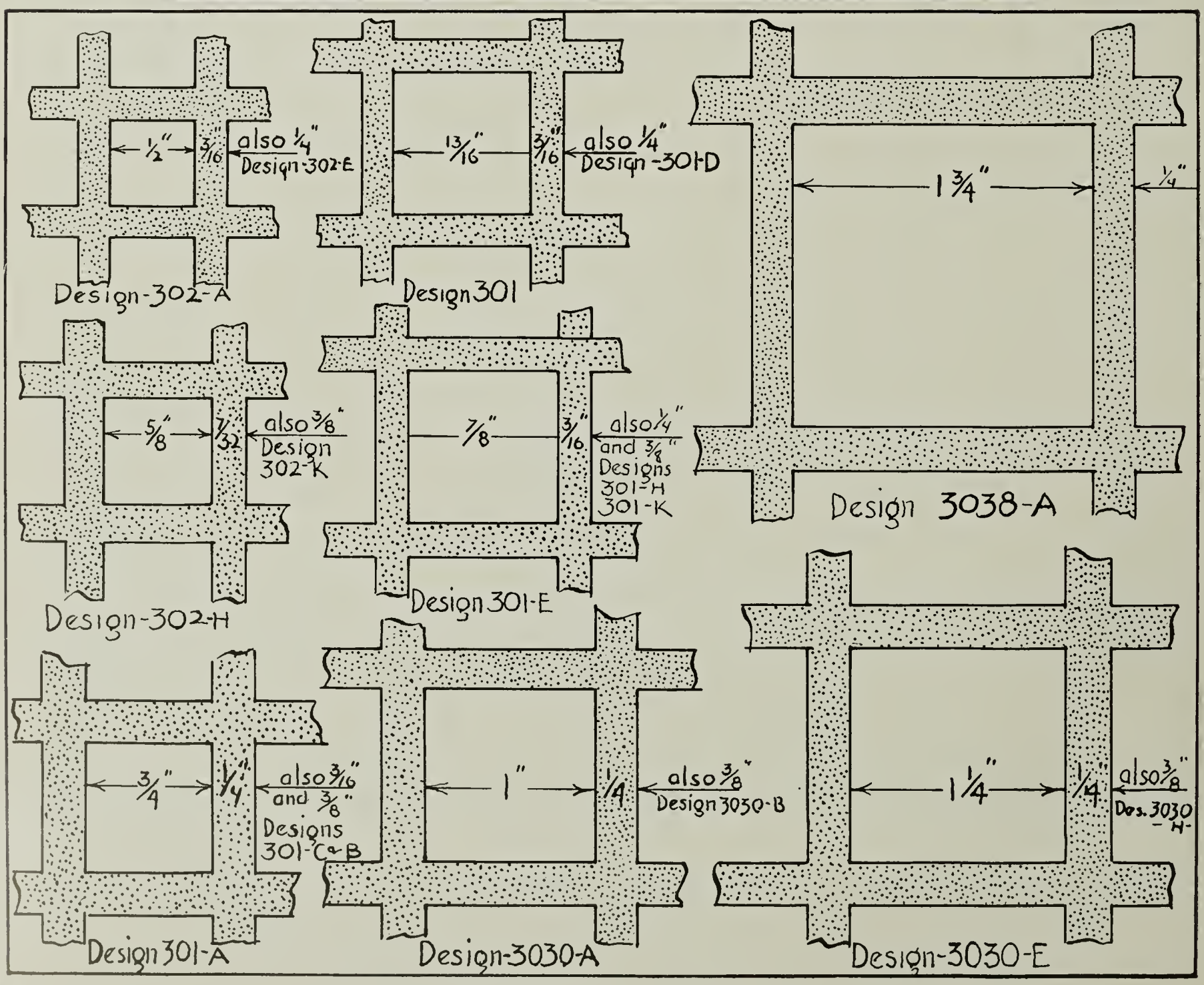
We also make these grilles of Sheet Bronze, Brass, Aluminum, Monel Metal and Stainless Steel.

Plain Lattice Design

The most popular design is the plain or square lattiee. We show below a number of combinations of the opening itself and the accompanying bar. We suggest the STYLE 301 having the $\frac{13}{16}$ opening and the $\frac{3}{16}$ bar. This gives the even ineh of the combination which faeilitates the lay-out work of the Architect or Engineer and in addition allows a greater free air opening than 3/4 design.

The drawings shown below are all full size.



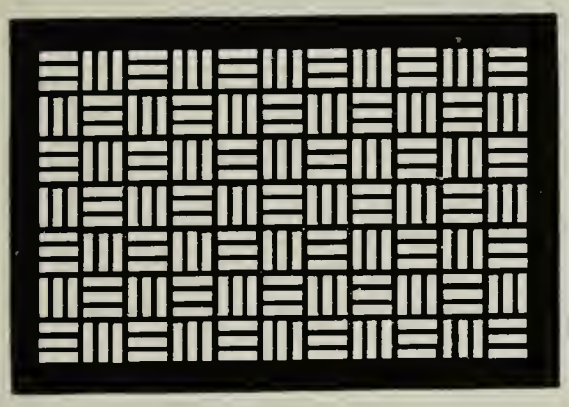


Sizes of all depend on rolling mill limits.

GRILLES

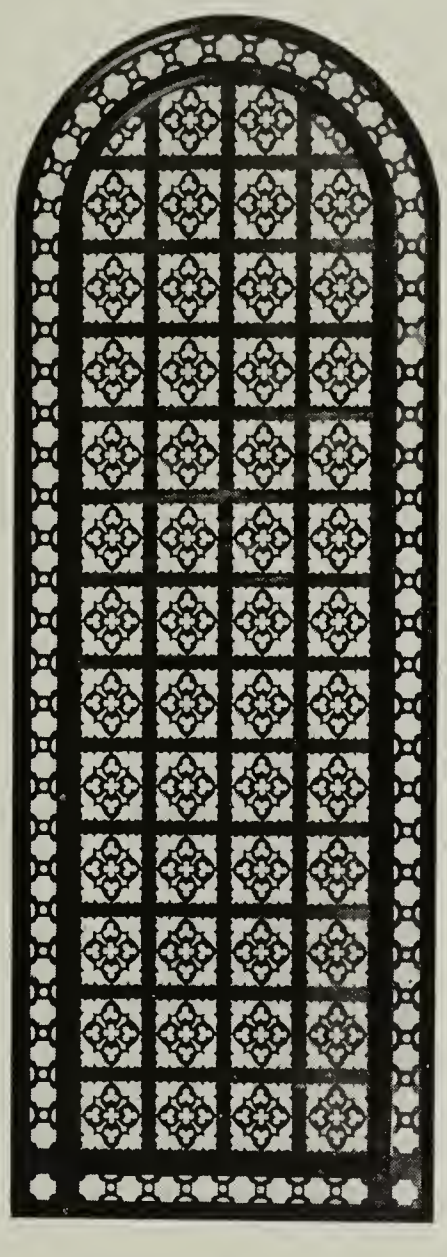
NEW DESIGNS

Stamped

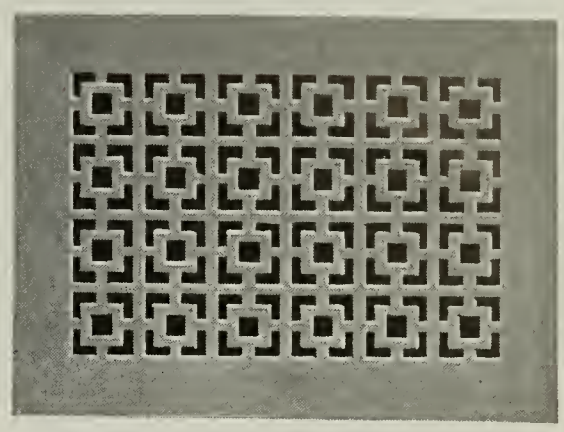


DESIGN No. 3050A F.A.O. 56%

No. of Holes	A Inches	No. of Holes	B Inches
1	2	13	29
2	4¼	14	31¼
3	6½	15	33½
4	8¾	16	35¾
5	11	17	38
6	13¼	18	40¼
7	15½	19	42½
8	17¾	20	44¾
9	20	21	47
10	22¼	22	49¼
11	24½	23	51½
12	26¾	24	53¾



DESIGN No. 3046A
F.A.O. 59%



DESIGN No. 3048A
F.A.O. 58%

No. of Holes	A Inches	No. of Holes	B Inches
1	1¾	13	25¾
2	3¾	14	27¾
3	5¾	15	29¾
4	7¾	16	31¾
5	9¾	17	33¾
6	11¾	18	35¾
7	13¾	19	37¾
8	15¾	20	39¾
9	17¾	21	41¾
10	19¾	22	43¾
11	21¾	23	45¾
12	23¾	24	47¾

DESIGN No. 3611A F.A.O. 56%

B—Punch size 1¾″ Bar ¼″ wide

A-1—Punch size $2\frac{11}{16}$″ —A-2 section of Grille should be symmetrical. Write for layout.

DESIGN No. 3046A

B= Unit Width A=Unit Height

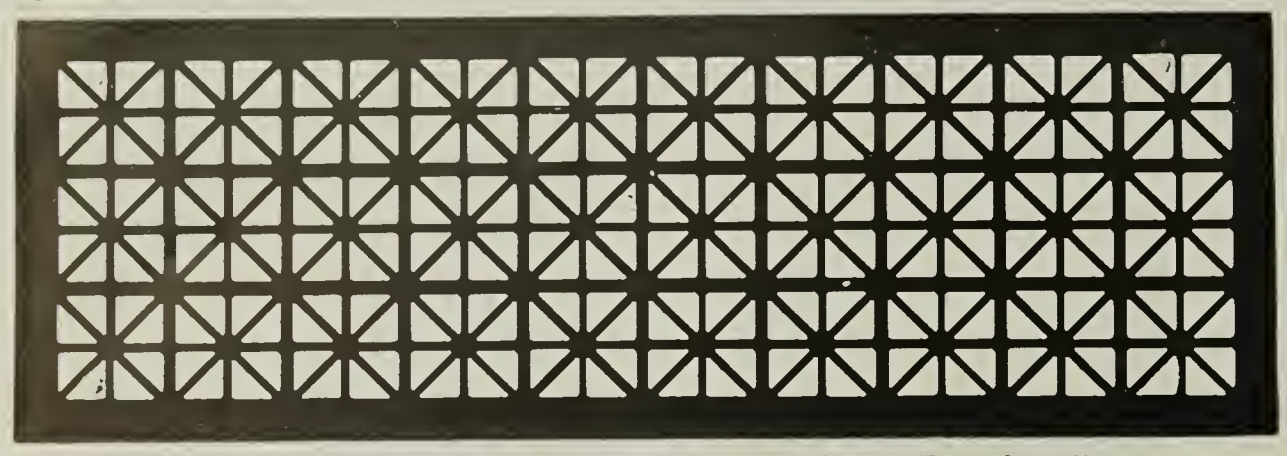
F.A.O. 59%

No. of Holes	A Inches	No. of Holes	B Inches
1	5⅛	1	4⅝
2	11¼	2	10¼
3	17⅜	3	15⅞
4	23½	4	21½
5	29⅝	5	27⅛
6	35¾	6	32¾
7	41⅞	7	38⅜
8	48	8	44
9	54⅛	9	49⅝
10	60¼	10	55¼
11	66⅜	11	60⅞
12	72½	12	66½
13	78⅝	13	72⅛
14	84¾	14	77¾
15	90⅞	15	83⅜

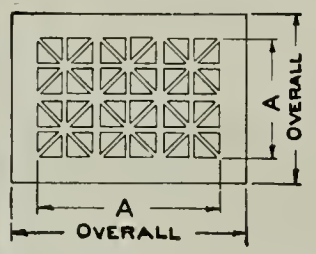
Sizes depend on rolling mill limits.

GRILLES STAMPED

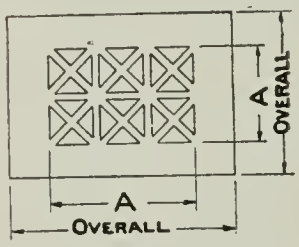
Special Design



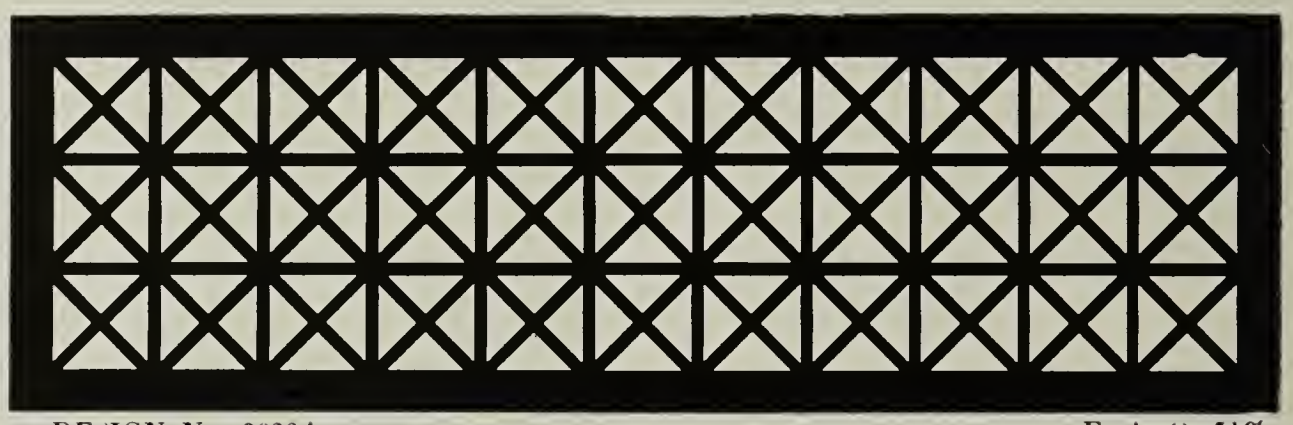
Grecian Design No. 304A made in five sizes of units F. A. O. 47%



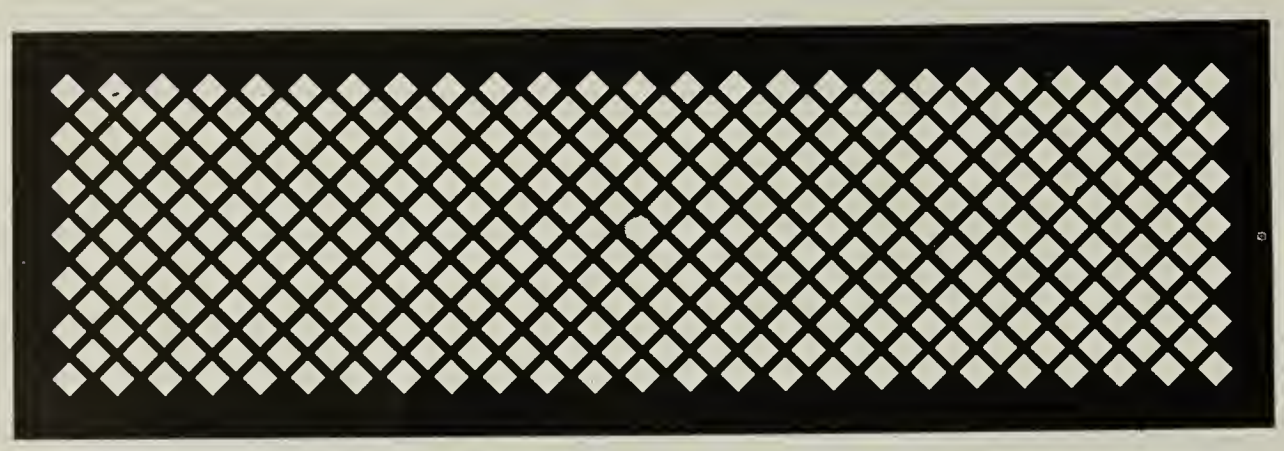
304A—3″ Unit—F. A. O. 47%
304B—4″ Unit—F. A. O. 48%
304C—2½″ Unit—F. A. O. 46%
304D—1¼″ Unit—F. A. O. 39%
304E—3½″ Unit—F. A. O. 52%
For table of Sizes see Pages 24 and 25



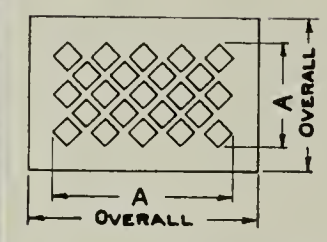
For table of Sizes
see Pages 24 and 25



DESIGN No. 3020A F. A. O. 51%



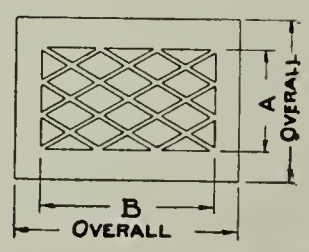
DESIGN No. 303D Diagonal Mesh made in four sizes F. A. O. 56%
Table furnished on request for No. 303A and 303B. See chart on page 24 for others.



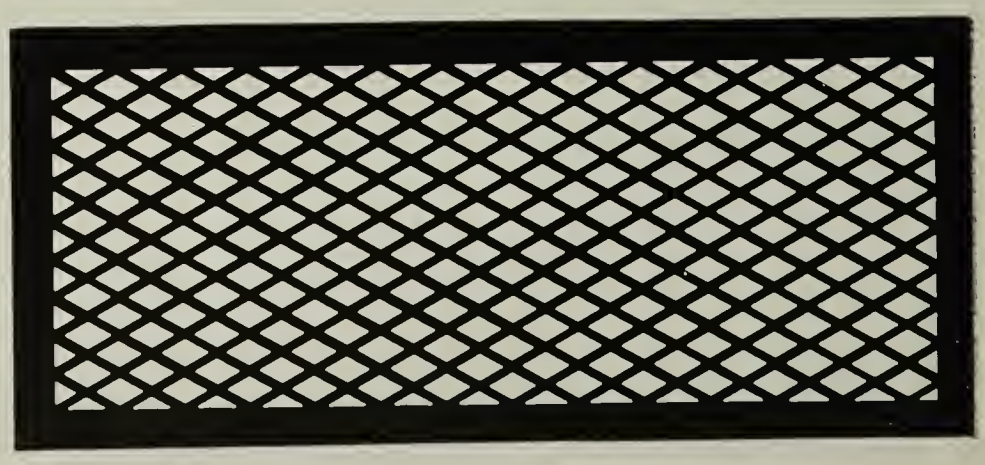
303A ⅝″ Diamond, $\frac{7}{32}$″ Bar
303B ⅝″ Diamond, ¼″ Bar
303C ½″ Diamond, $\frac{3}{16}$″ Bar
303D ¾″ Diamond, ¼″ Bar

No. of Holes	A Inches	B Inches	No. of Holes	A Inches	B Inches
1	$1\frac{9}{32}$	2⅛	37	$22\frac{3}{32}$	38⅛
3	$2\frac{7}{16}$	4⅛	39	$23\frac{1}{4}$	40⅛
5	$3\frac{19}{32}$	6⅛	41	$24\frac{13}{32}$	42⅛
7	$4\frac{3}{4}$	8⅛	43	$25\frac{9}{16}$	44⅛
9	$5\frac{29}{32}$	10⅛	45	$26\frac{23}{32}$	46⅛
11	$7\frac{1}{16}$	12⅛	47	$27\frac{7}{8}$	48⅛
13	$8\frac{7}{32}$	14⅛	49	$29\frac{1}{32}$	50⅛
15	$9\frac{3}{8}$	16⅛	51	$30\frac{3}{16}$	52⅛
17	$10\frac{17}{32}$	18⅛	53	$31\frac{11}{32}$	54⅛
19	$11\frac{11}{16}$	20⅛	55	$32\frac{1}{2}$	56⅛
21	$12\frac{27}{32}$	22⅛	57	$33\frac{21}{32}$	58⅛
23	14	24⅛	59	$34\frac{13}{16}$	60⅛
25	$15\frac{5}{32}$	26⅛	61	$35\frac{31}{32}$	62⅛
27	$16\frac{5}{16}$	28⅛	63	$37\frac{1}{8}$	64⅛
29	$17\frac{15}{32}$	30⅛	65	$38\frac{9}{32}$	66⅛
31	$18\frac{5}{8}$	32⅛	67	$39\frac{7}{16}$	68⅛
33	$19\frac{25}{32}$	34⅛	69	$40\frac{19}{32}$	70⅛
35	$20\frac{13}{16}$	36⅛			

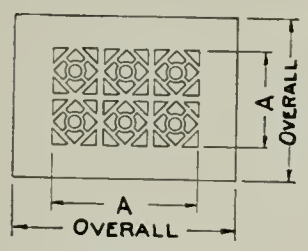
For each additional holes add $1\frac{5}{32}$″ to A inches.
2″ to B inches.



DESIGN No. 3028A F. A. O. 67%

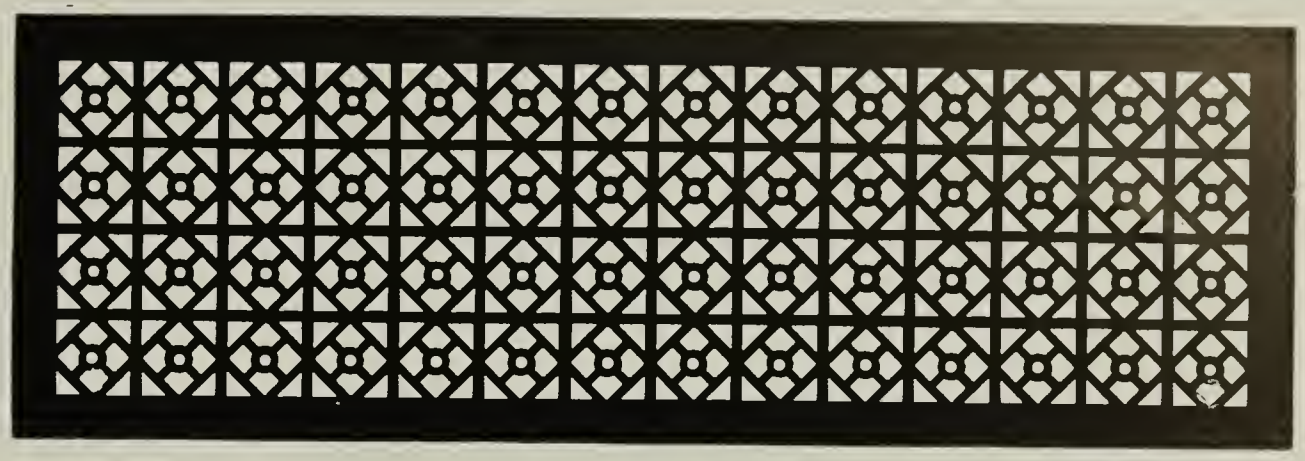


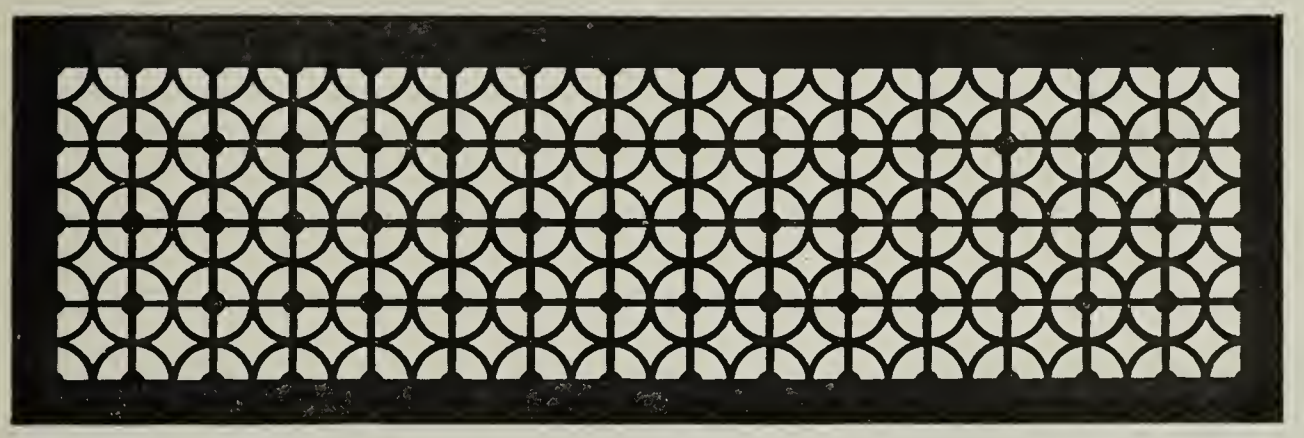
GRILLES STAMPED Special Design



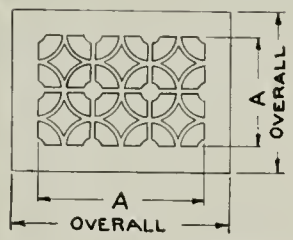
A NEW DESIGN
For table of Sizes see Pages 24 and 25

DESIGN NO 3022A F. A. O. 60%





DESIGN No. 3012B F. A. O. 55%



CIRCLE DESIGN
3012A Unit size 2⅞", F. A. O. 52%
3012B Unit size 2", F. A. O. 55%
For table of Sizes see Pages 24 and 25

Grille 3034A is Fixed Louvre type of Grille. Designed to Ventilate without permitting a view of the room.

Maximum overall width of Grille with louvres parallel to width is 48".

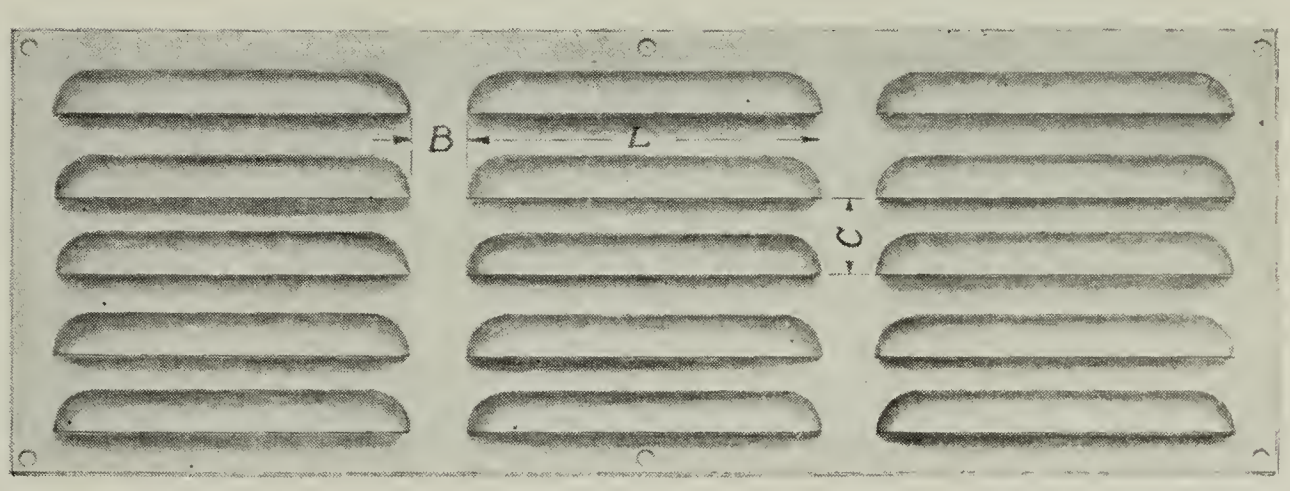
Maximum overall height of Grille is 96".

Dimension "L" in three sizes: 3½, 5½ and 7".

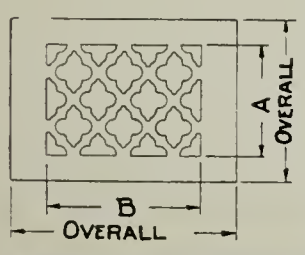
Bar "B" Dimensions.

Not less than $1\frac{3}{16}$" for 3½" size.
Not less than 1¼" for 5½" size.
Not less than $1\frac{7}{16}$" for 7" size.

Dimension "C". This size is 1" for all sizes.



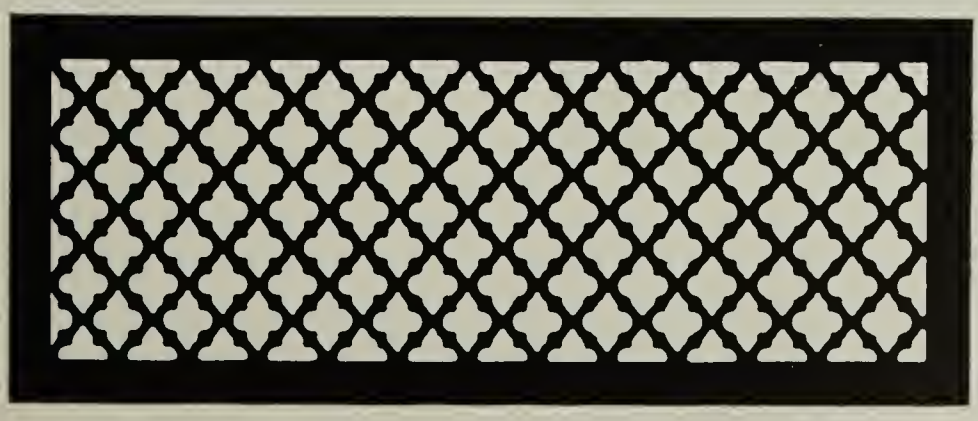
DESIGN No. 3034A



The design shown below is known as the Gothic Cloverleaf—Design 3018A. Table of sizes up to 36 holes.

Also made in design 3024A. A true cloverleaf design with a 1" Unit and ¼" Bar. We will gladly furnish a complete layout of sizes on request. F. A. O. 50%.

DESIGN No. 3018A F. A. O. 65%

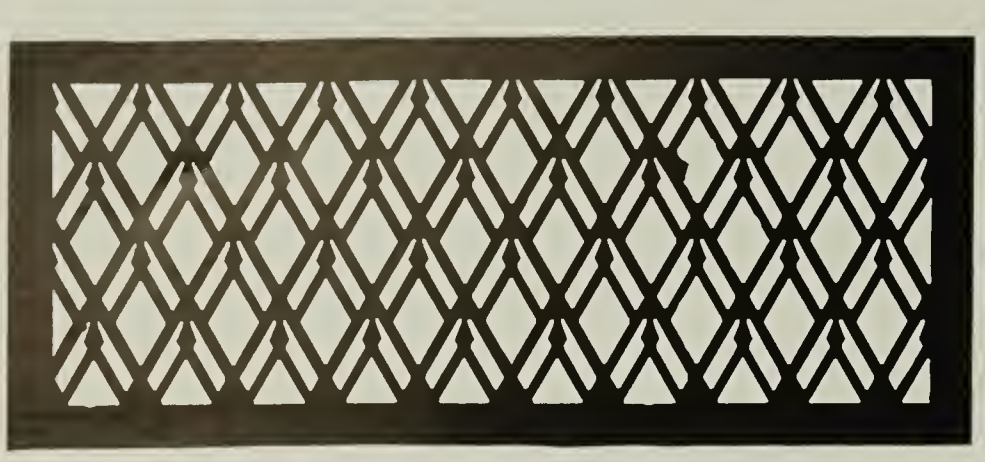


No. of Holes	A Inches	B Inches	No. of Holes	A Inches	B Inches
1	2⅛	2	19	40⅝	38
2	4¼	4	20	42½	40
3	6⅜	6	21	44⅝	42
4	8½	8	22	46¾	44
5	10⅝	10	23	48⅞	46
6	12¾	12	24	51	48
7	14⅞	14	25	53⅛	50
8	17	16	26	55¼	52
9	19⅛	18	27	57⅜	54
10	21¼	20	28	59½	56
11	23⅜	22	29	61⅝	58
12	25½	24	30	63¾	60
13	27⅝	26	31	65⅞	62
14	29¾	28	32	68	64
15	31⅞	30	33	70⅛	66
16	34	32	34	72¼	68
17	36⅛	34	35	74⅜	70
18	38¼	36	36	76½	72

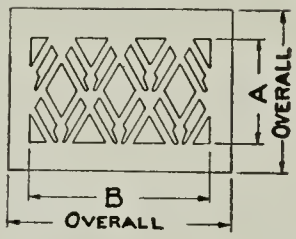
For each additional holes add 2⅛" to A inches. 2" to B inches.

GRILLES STAMPED

Special Design

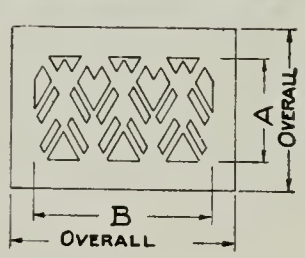


DESIGN No. 3623A F. A. O. 57%

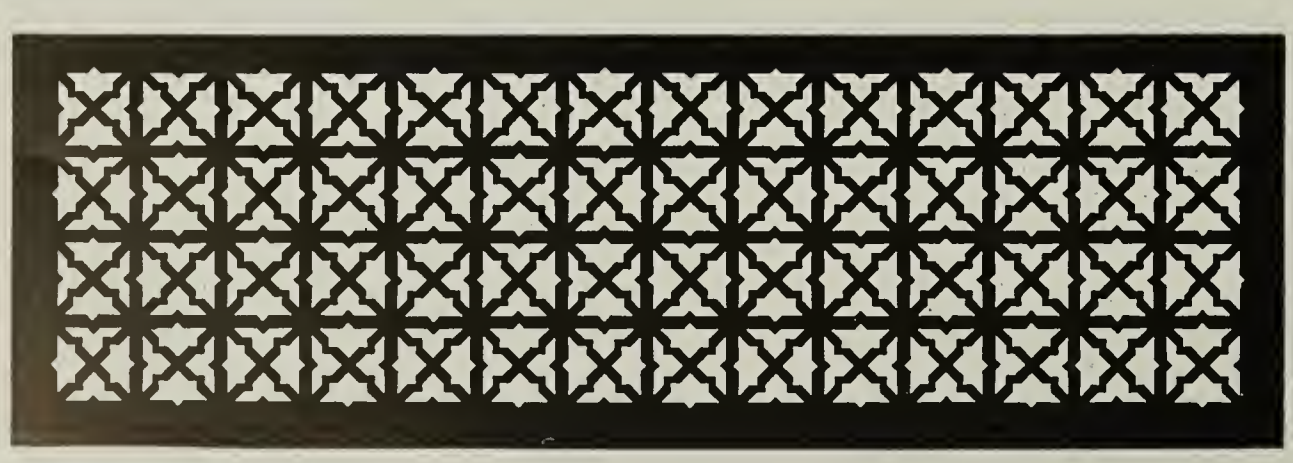


No. of Holes	A Inches	B Inches	No. of Holes	A Inches	B Inches
1	4¾	2¾	13	61¾	35¾
2	9½	5½	14	66½	38½
3	14¼	8¼	15	71¼	41¼
4	19	11	16	76	44
5	23¾	13¾	17	80¾	46¾
6	28½	16½	18	85½	49½
7	33¼	19¼	19	90¼	52¼
8	38	22	20	95	55
9	42¾	24¾	21	99¾	57¾
10	47½	27½	22	104½	60½
11	52¼	30¼	23	109¼	63¼
12	57	33	24	114	66
Additional Holes add	4¾	2¾			

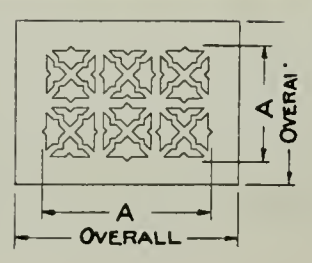
DESIGN No. 3624A F. A. O. 50%



No. of Holes	A Inches	B Inches	No. of Holes	A Inches	B Inches
1	4¾	2¾	13	61¾	35¾
2	9½	5½	14	66½	38½
3	14¼	8¼	15	71¼	41¼
4	19	11	16	76	44
5	23¾	13¾	17	80¾	46¾
6	28½	16½	18	85½	49½
7	33¼	19¼	19	90¼	52¼
8	38	22	20	95	55
9	42¾	24¾	21	99¾	57¾
10	47½	27½	22	104½	60½
11	52¼	30¼	23	109¼	63¼
12	57	33	24	114	66
Additional Holes add	4¾	2¾			



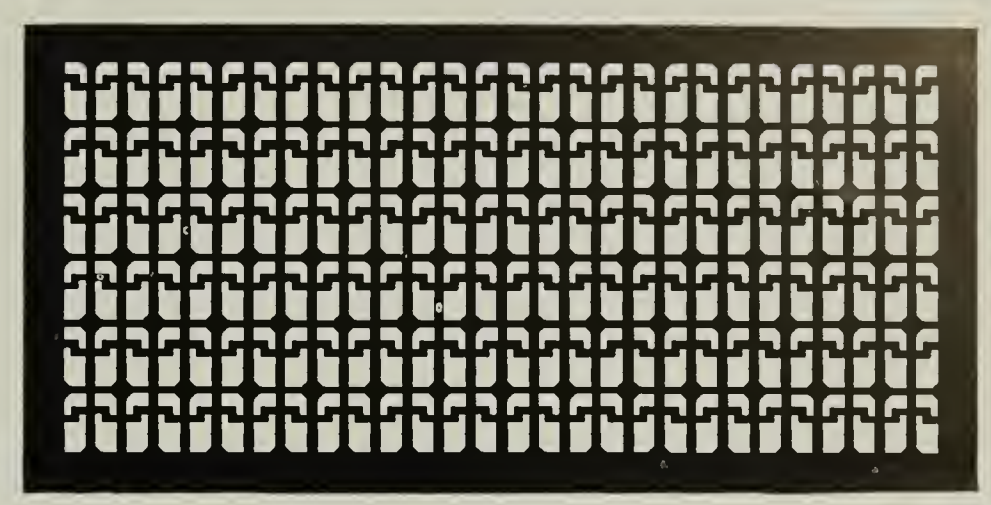
DESIGN No. 3096A F. A. O. 51%

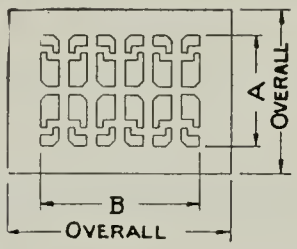


For table of Sizes
see Pages 24 and 25

GRILLES STAMPED Special Design

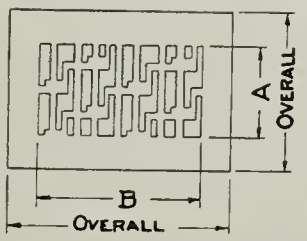
No. of Holes	A Inches	B Inches	No. of Holes	A Inches	B Inches
1	1 3/4	1 9/16	14	27 3/4	25 15/16
2	3 3/4	3 7/16	15	29 3/4	27 13/16
3	5 3/4	5 5/16	16	31 3/4	29 11/16
4	7 3/4	7 3/16	17	33 3/4	31 9/16
5	9 3/4	9 1/16	18	35 3/4	33 7/16
6	11 3/4	10 15/16	19	37 3/4	35 5/16
7	13 3/4	12 13/16	20	39 3/4	37 3/16
8	15 3/4	14 11/16	21	41 3/4	39 1/16
9	17 3/4	16 9/16	22	43 3/4	40 15/16
10	19 3/4	18 7/16	23	45 3/4	42 13/16
11	21 3/4	20 5/16	24	47 3/4	44 11/16
12	23 3/4	22 3/16	25	49 3/4	46 9/16
13	25 3/4	24 1/16	26	51 3/4	48 7/16
Additional Holes add	2	1 7/8			





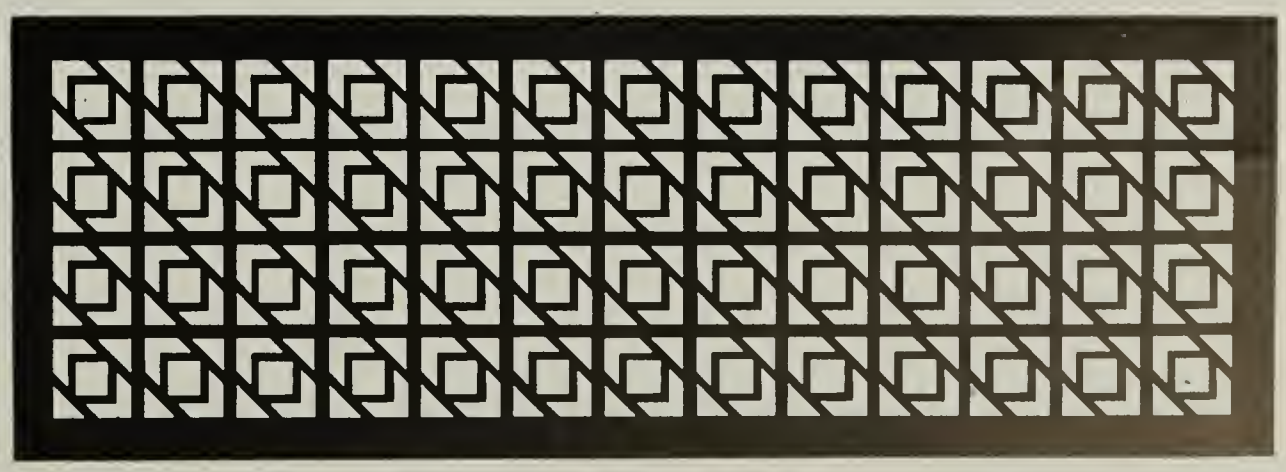
DESIGN No. 3864A F. A. O. 46%

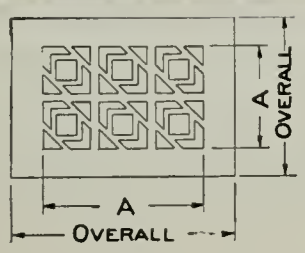
No. of Holes	A Inches	B Inches	No. of Holes	A Inches	B Inches
1	1 3/4	1 17/32	14	27 3/4	24 9/32
2	3 3/4	3 9/32	15	29 3/4	26 1/32
3	5 3/4	5 1/32	16	31 3/4	27 25/32
4	7 3/4	6 25/32	17	33 3/4	29 17/32
5	9 3/4	8 17/32	18	35 3/4	31 9/32
6	11 3/4	10 9/32	19	37 3/4	33 1/32
7	13 3/4	12 1/32	20	39 3/4	34 25/32
8	15 3/4	13 25/32	21	41 3/4	36 17/32
9	17 3/4	15 17/32	22	43 3/4	38 9/32
10	19 3/4	17 9/32	23	45 3/4	40 1/32
11	21 3/4	19 1/32	24	47 3/4	41 25/32
12	23 3/4	20 25/32	25	49 3/4	43 17/32
13	25 3/4	22 17/32	26	51 3/4	45 9/32
Additional Holes add	2	1 3/4			



DESIGN No. 3866A F. A. O. 50%

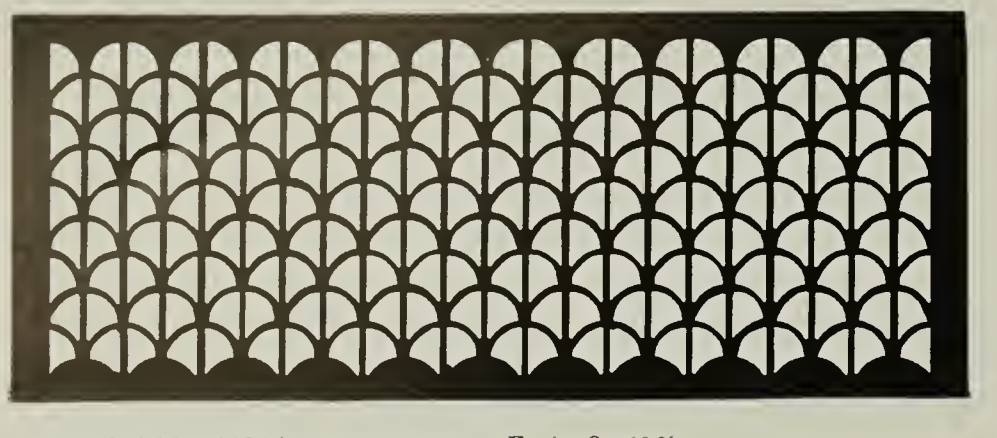
For table of Sizes
see Pages 24 and 25



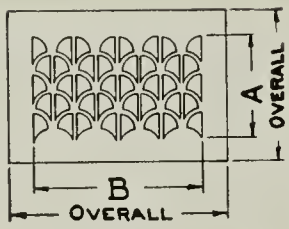


DESIGN No. 3032A F. A. O. 47%

GRILLES STAMPED Special Design



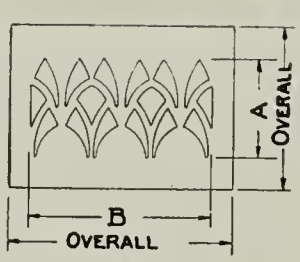
DESIGN No. 3014A F. A. O. 60%



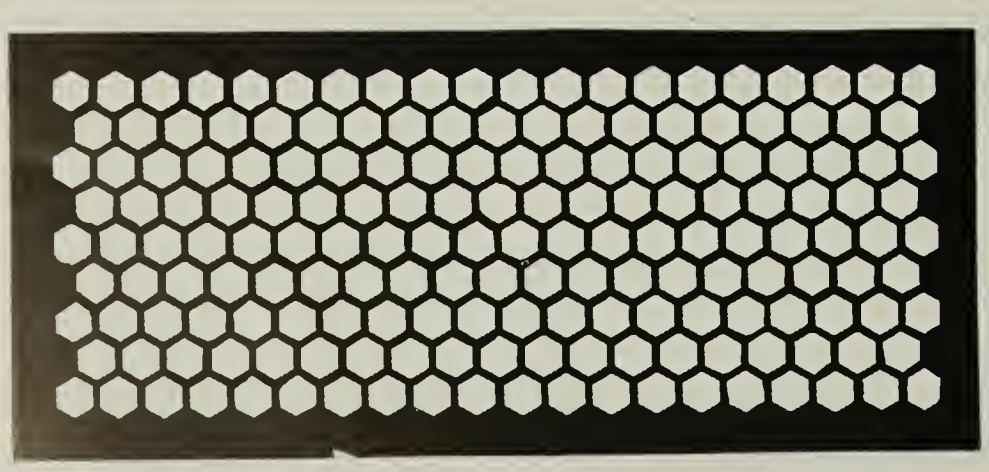
This design known as Split Scale or Half Shell. Made in two Unit sizes. Design 3014A. Table of Sizes at right. Design 3014B. Unit size 2" x 2¾" with F. A. O. 65%. Table of sizes furnished on request.

No. of Holes	A Inches	No. of Holes	B Inches	No. of Holes	A Inches	No. of Holes	B Inches
1	1 7/16	2	2 7/16	27	30 1/16	28	37 3/8
3	3 11/16	4	5 1/8	29	32 15/16	30	40 9/16
5	5 15/16	6	7 13/16	31	35 3/16	32	42 3/4
7	8 3/16	8	10 1/2	33	37 7/16	34	45 7/16
9	10 7/16	10	13 3/16	35	39 11/16	36	48 1/8
11	12 11/16	12	15 7/8	37	41 15/16	38	50 13/16
13	14 15/16	14	18 9/16	39	44 3/16	40	53 1/2
15	17 3/16	16	21 1/4	41	46 7/16	42	56 3/16
17	19 7/16	18	23 15/16	43	48 11/16	44	58 7/8
19	21 11/16	20	26 5/8	45	50 15/16	46	61 9/16
21	23 15/16	22	29 5/16	47	53 3/16	48	64 1/4
23	26 3/16	24	32	49	55 7/16	50	66 15/16
25	28 7/16	26	34 11/16	51	57 11/16	52	69 5/8
Additional Holes add	2 1/4		2 11/16				

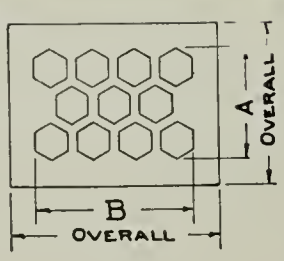
DESIGN No. 3865A F. A. O. 57%



No. of Holes	A Inches	B Inches	No. of Holes	A Inches	B Inches
1	4 5/16	2 1/2	14	60 3/8	33 3/8
2	8 5/8	4 7/8	15	64 11/16	35 3/4
3	12 15/16	7 1/4	16	69	38 1/8
4	17 1/4	9 5/8	17	73 5/16	40 1/2
5	21 9/16	12	18	77 5/8	42 7/8
6	25 7/8	14 3/8	19	81 15/16	45 1/4
7	30 3/16	16 3/4	20	86 1/4	47 5/8
8	34 1/2	19 1/8	21	90 9/16	50
9	38 13/16	21 1/2	22	94 7/8	52 3/8
10	43 1/8	23 7/8	23	99 3/16	54 3/4
11	47 7/16	26 1/4	24	103 1/2	57 1/8
12	51 3/4	28 5/8	25	107 13/16	59 1/2
13	56 1/16	31	26	112 1/8	61 7/8
Additional Holes add	4 5/16	2 3/8			



DESIGN No. 3026A F. A. O. 64%



No. of Holes	A Inches	No. of Holes	B Inches	No. of Holes	A Inches	No. of Holes	B Inches
1	1 5/32	1	1	27	29 5/32	14	17 1/4
3	3 5/16	2	2 1/4	29	31 15/32	15	18 1/2
5	5 1/2	3	3 1/2	31	33 5/8	16	19 3/4
7	7 21/32	4	4 3/4	33	35 25/32	17	21
9	9 13/16	5	6	35	37 15/16	18	22 1/4
11	11 31/32	6	7 1/4	37	40 1/8	19	23 1/2
13	14 5/32	7	8 1/2	39	42 5/32	20	24 3/4
15	16 5/16	8	9 3/4	41	44 15/32	21	26
17	18 15/32	9	11	43	46 5/8	22	27 1/4
19	20 5/8	10	12 1/4	45	48 3/4	23	28 1/2
21	22 13/16	11	13 1/2	47	50 15/16	24	29 3/4
23	24 31/32	12	14 3/4	49	53 3/32	25	31
25	27 1/8	13	16	51	55 1/4	26	32 1/4
Additional Holes add	2 5/32		1 1/4				

GRILLES STAMPED Special Design

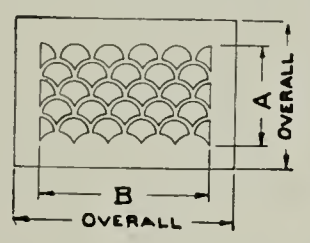
This design known as Scale or Shell, made in three unit sizes.

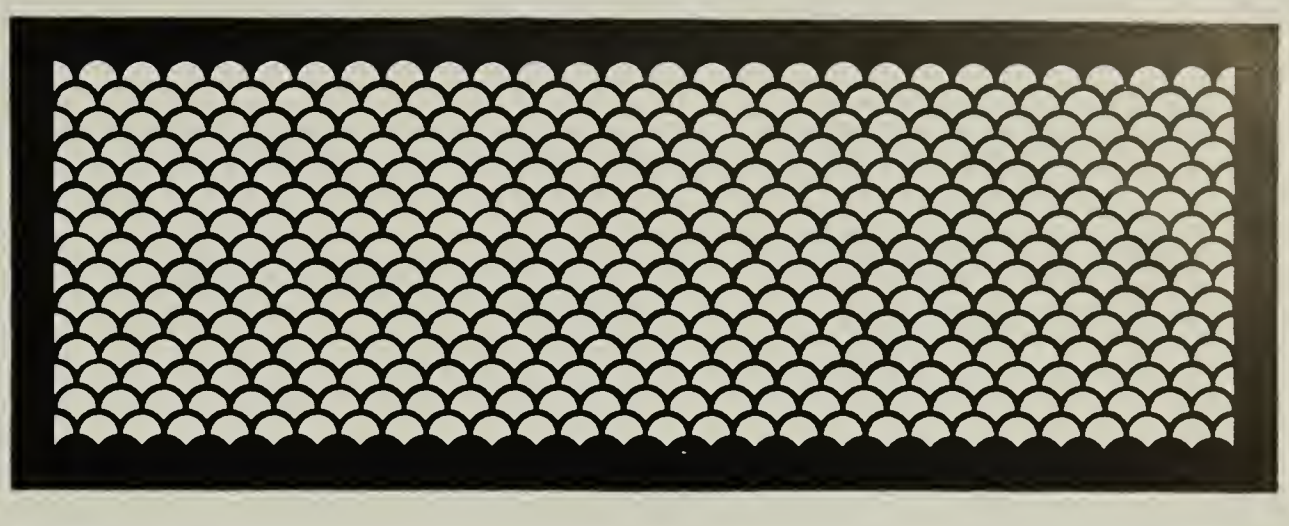
Design 3016A, Dimension A is 5/8", Dimension B is 1", F. A. O. 50%.

Design 3016B, Dimension A is 1 7/16", Dimension B is 2", F. A. O. 72%.

Design 3016C. Dimension A is 7/8", Dimension B is 1¼", F. A. O. 56%.

Complete table of sizes furnished on request.

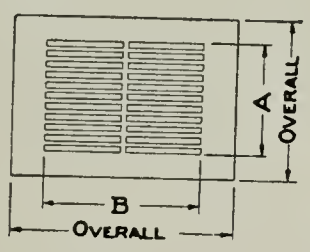


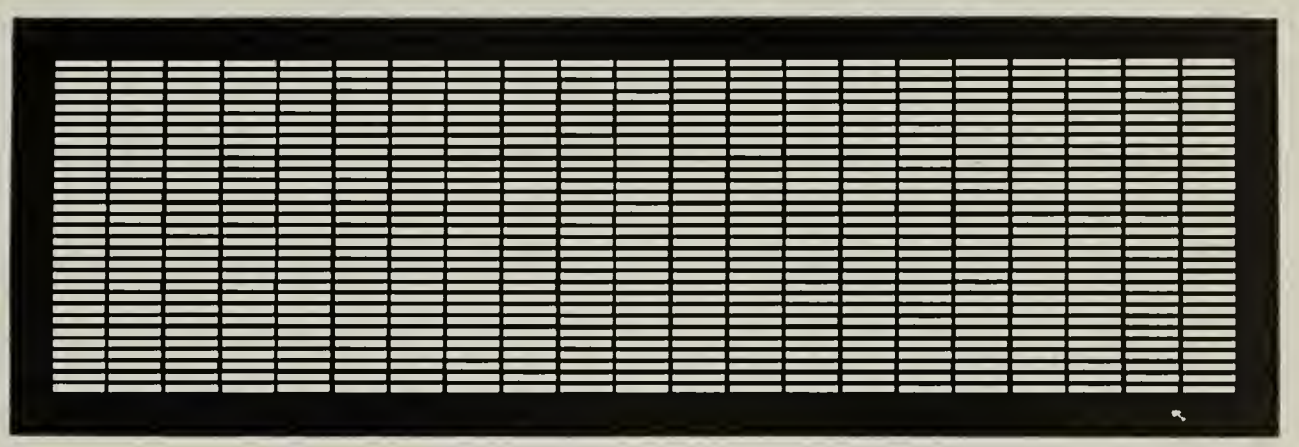


DESIGN No. 3016C F. A. O. 56%

This design is used in school rooms under the window for Ventilation. Also used in the chalk trays allowing the chalk dust to drop through, at the same time keeping the chalk clean and fresh.

Dimension A is 13/64", Dimension B is 1½". Complete Table of sizes furnished on request.





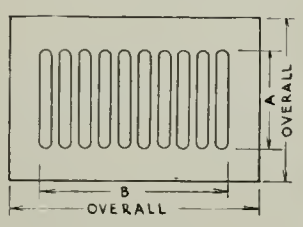
DESIGN No. 309A F. A. O. 50%

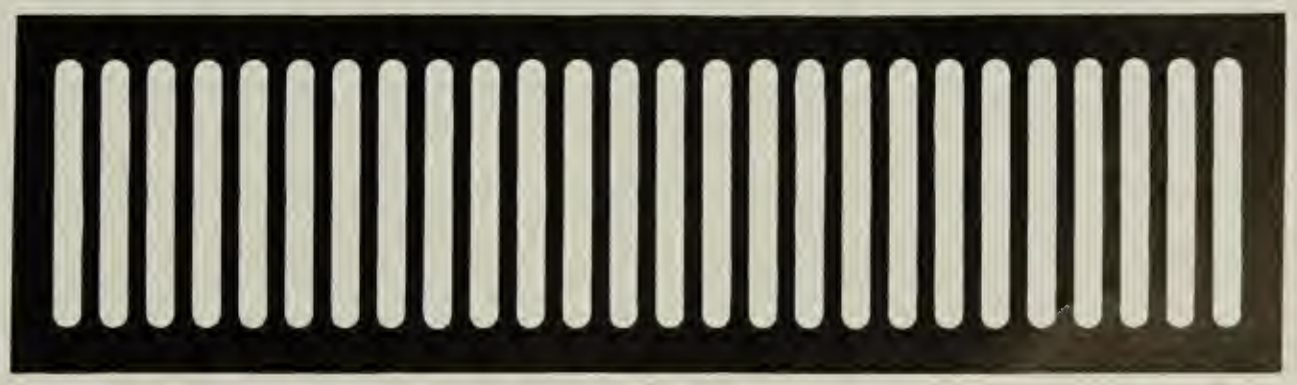
Bar Design for use in radiator enclosures or concealed radiation.

"A" Dimension is variable from 4 5/8 to 19 5/8".

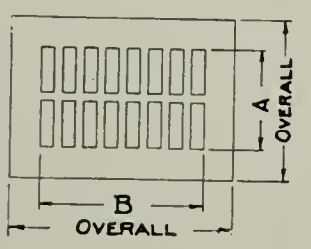
"B" Dimension is 5/8".

Complete information furnished on reqnest.





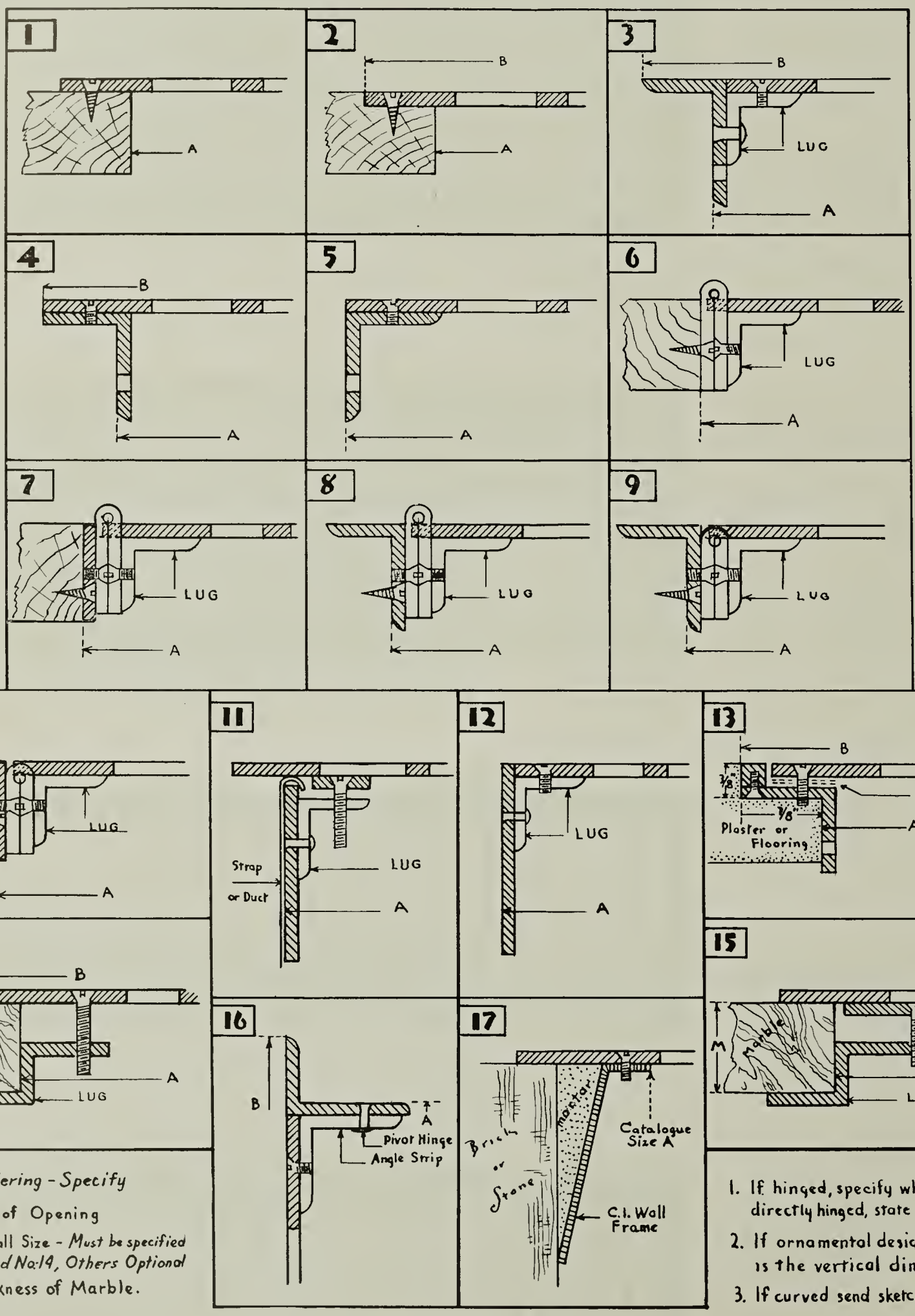
DESIGN No. 3510C F. A. O. 70%



"A" Dimension 2¾".
"B" Dimension ¾".

DESIGN No. 3510A F. A. O. 51%

SHOWING METHODS OF CONSTRUCTION



When Ordering - Specify

A - Size of Opening

B - Over-all Size - *Must be specified in No.2 and No.14, Others Optional*

M - Thickness of Marble.

1. If hinged, specify which side, If directly hinged, state to what.
2. If ornamental design, which is the vertical dimension.
3. If curved send sketch or templet.

When Ordering - Specify construction Number

Better Grilles for Better Installation

HINGED PANEL TYPE GRILLES

THE EFFECT—for the Architect THE CAPACITY—for the Engineer

THE CONSTRUCTION—for the Draughtsman THE SPECIFICATION—for the Specification Writer

GYMNASIUMS ENTRANCES CORRIDORS AUDITORIUMS

R. & G. SPECIFICATION 200, 201 AND 202 TYPICAL SPECIFICATION

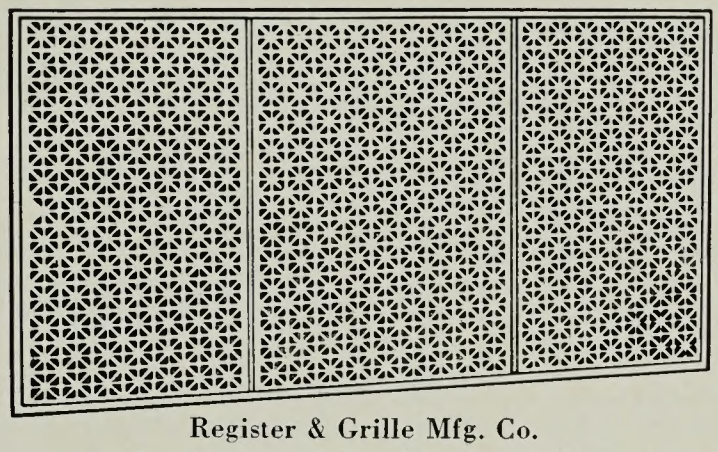
Grilles located.....shall be Register & Grille Mfg. Co., Brooklyn, N. Y.

SPECIFICATION No.....
200 (Steel, Prime Coat)
201 (Steel, Bronze Plated)
202 (Stamped Bronze)

Design of Grilles shall be.....

* * *

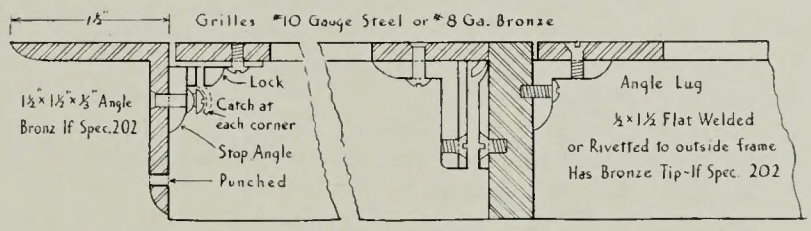
Specification by number also specifies the construction in every detail as shown in cut below. If other finish or material is desired, specify R. & G. Specification 203, followed by other finish or material. Three panel effect furnished unless otherwise specified.



Register & Grille Mfg. Co.
Specification 200 — (Design 304A)

Standard of workmanship for every R. & G. Specification 200, 201 or 202 is the best obtainable. If Steel, only cold rolled full pickled is used. Exposed angles are mitred, welded and polished smooth. No mitre lines will show.

If flat black baffle plates, offset 1" on back of grilles for copper radiation are desired, add C. R. after Specification number—viz.: 200 C. R.—in which case manufacture will be from detailed prints prepared or approved by Architect or Engineer.



Construction of Specifications 200, 201 and 202

STATIONARY PANEL TYPE GRILLES

R. & G. SPECIFICATION 400, 401 AND 402
TYPICAL SPECIFICATION

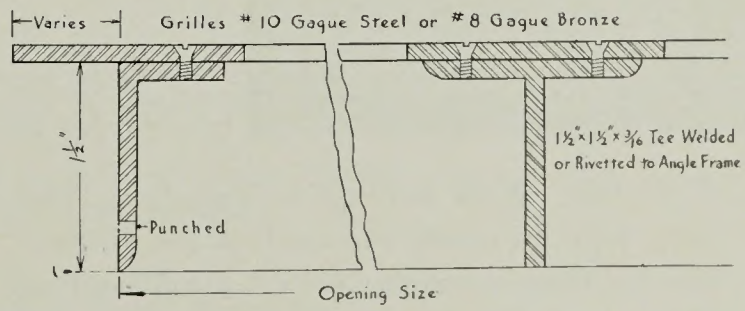
Grilles located.....shall be Register & Grille Mfg. Co., Brooklyn, N. Y.

SPECIFICATION No.....
400 (Steel, Prime Coat)
401 (Steel, Bronze Plated)
402 (Stamped Bronze)

Design of Grilles shall be.....

* * *

Specification by number also specifies the construction in every detail as shown in cut at right. If other finish or material is desired, specify R. & G. Specification 403, followed by other finish or material.

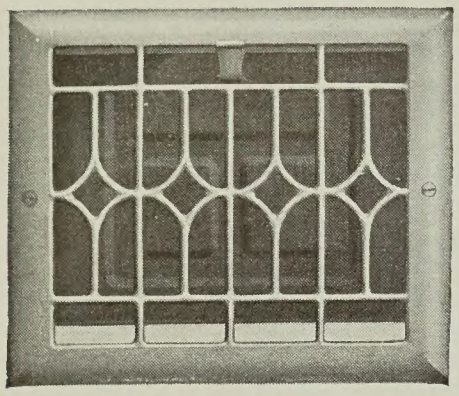


Construction of Specifications 400, 401 and 402

In other respects same standard of workmanship and method of handling if for Copper Radiation applies as described under Specification 200 above.

REGISTERS AND COLD AIR FACES

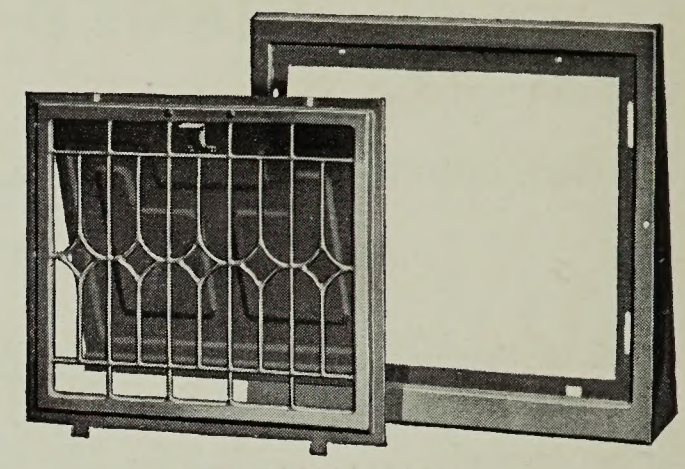
For Use in Gravity-Warm Air Furnace Installations



Style No. 332
For Sidewall Use
Also can be furnished in Two Piece Construction.
Style No. 3302 See Table No. 14.

POPULAR

NEW GOTHIC DESIGN

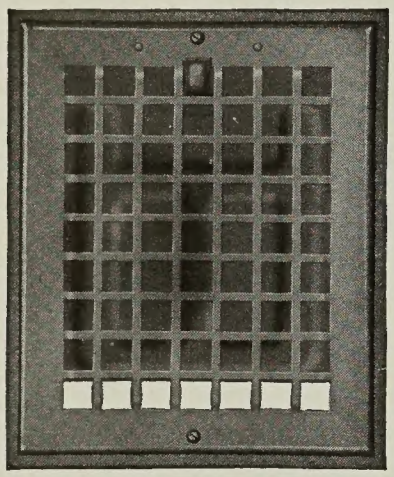


Style No. 3903
Two Piece Baseboard Register
Also can be furnished in One Piece Construction Style No. 3403.
See Table No. 8 for Sizes and Prices.

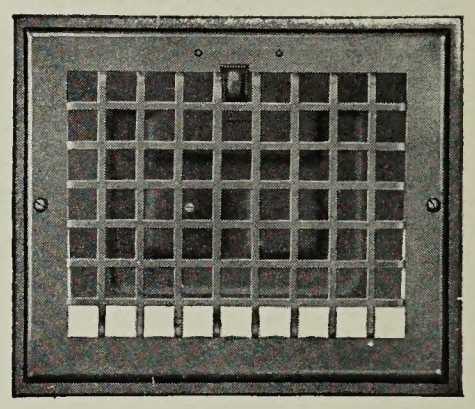
TABLE NUMBER 14

Size	*Black Japan & Prime Coat*	*White Japan & Rango*	*Plated Bronze Brass*	*Plated Chrome*
8 x 10	$1.65	$2.00	$3.15	$3.85
8 x 12	1.90	2.30	3.65	4.40
9 x 12	2.10	2.55	4.00	5.10
10 x 12	2.40	2.90	4.40	5.50
*12 x 14	4.35	5.25	6.85	8.00

* Not made in Style No. 341.



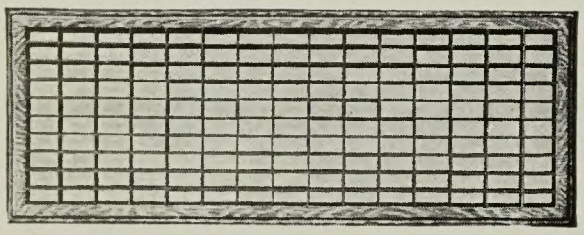
Style No. 341



Style No. 339

For Floor Registers see Page 16 for Designs and Table Number 1 for Sizes and Prices.

"FABRIKATED" COLD AIR FACES (Floor Use)

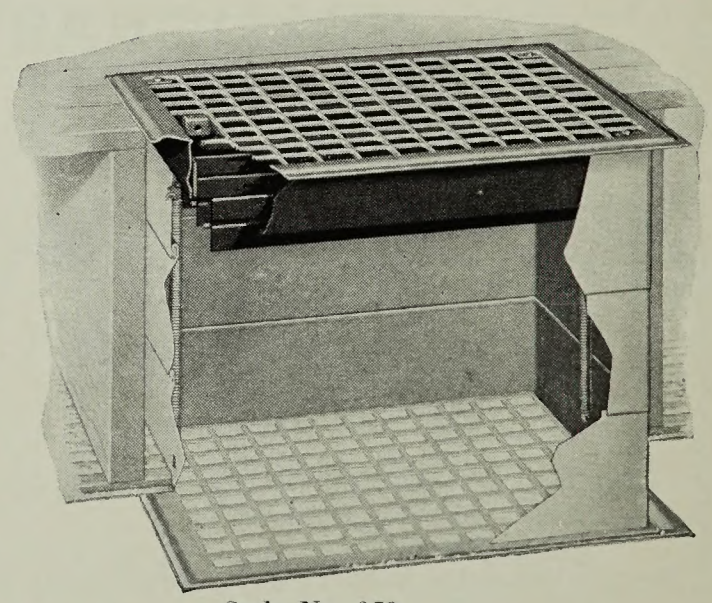


See Table No. 12 for sizes and prices.

No. 3130 BE: With beveled outer edges. The outer rims, approximately one inch wider all four sides than the floor opening size, are usually set on the surface of the floor.

No. 3130 SE: With straight outer edges, rims approximately ½ inch wider all four sides than the floor opening size.

FACE OPENINGS: ¾ x $1\frac{11}{16}$ in (approximate). Uniform in design with No. 3300 Register.



Style No. 378

With the use of No. 378 Ventilators the surplus heat from the lower rooms is carried to the upper rooms.

Tin Boxes telescope to 4 inches deep. See sizes and prices Table No. 10.

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